

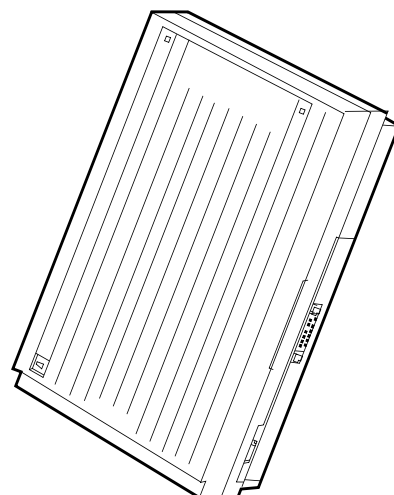
# USER'S MANUAL

*Please read this manual before  
use the advanced Hybrid System*

**MODEL**

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**MC-824KD / MC-824KD +**



# *System Components*

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	Model Number	Descriptions
Service Unit	MC-824KD MC-824KD+	Digital Hybrid Key Phone System (Main Unit)
Telephone	MC-1 MC-3 MC-40 MC-50 MC-3100S	32 Programmable button Key Telephone Set 32 Programmable button Key Telephone Set 21 Programmable button Key Telephone Set 21 Programmable button Key Telephone Set 6 Fixed function button Regular Telephone Set
Optional Equipment	MC-010DR	Universal Door Phone & Opener

## ***WARNING***

***CHECK THE POWER SUPPLY OF THE PBX BEFORE CONNECTION, MAKE SURE IT IS SAME AS LOCAL VOLTAGE***

***DO NOT PLUG IN OR PLUG OUT THE ADD-ON CARD OR OTHER EQUIPMENT WHEN PBX IS POWER ON.***

***MAKE SURE TO CONNECT WITH GROUND FOR LIGHTNING PROTECTION***

***IF PBX FAILS PLEASE DO NOT MOVE OR TOUCH ANY COMPONENTS IN PBX JUST CONTACT YOUR LOCAL DEALER FOR REPAIR***

***DO NOT EXPOSE THE SYSTEM TO RAIN OR MOISTURE SITUATION.***

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# PBX Inner Structure

	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
Power Card	008C 008A EXT or 800L CO or PRI	008C 008A EXT or 800L CO or PRI	008C 008A EXT or 800L CO	008C 008A EXT or 800L CO	008C 008A EXT or dtmf Card	008C 008A EXT or dtmf Card	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	008C EXT or 008A EXT	O G M	C P U

**Model:** MC-824KD+ (32CO/112EXT or 0CO/144EXT)

- 1: System max. connect 1 PRI E1 Card;
- 2: When slot 18 connect PRI, then slot 17,16,15 can only connect extension card; can not connect CO Card any more;
- 3: When slot 17 connect PRI, then slot 18 can only connect CO Line card; slot 16,15 can connect both CO or extensions;
- 4: All extension slot can work with 008A or 008C card ; (008A: all 8 ports work with hybrid)
- 5: DTMF: it used when to expand more conversation channels;
- 6: OGM : built in 2-channel ,optional 6 channels ,each channel 75 s,6-level (30s-9s-9s-9s-9s-9s)

---

# *Section 1*

## *Operation*

The chapter shows the steps how to operate system by Key Telephone Set as well as the Regular Phones





## 1.1 Before Operating

---

### ◆◆ *What's difference between Verzio Exclusive Key Telephone & Regular Telephone ?*

Exclusive Key Telephone is the phone that you can

1. Use the simple button to dial for a whole feature, such as press simple Button 9 as to dial whole extension number "8006" etc ; but if you use a regular phone, you need to dial 4-digit ,8-0-0-6 .
2. Can physically see the System Program status at the LCD of the Key Telephone, just like to see System Program in the Computer software intuitive graphic interface ! While at regular phone set, you can not see them.
3. At reception, Operator can view which extension or line is busy or free, from the color of Key Telephone buttons. Such as Blue for outside line is busy, Red for extension button is busy. No color then no one use the line or extensions.

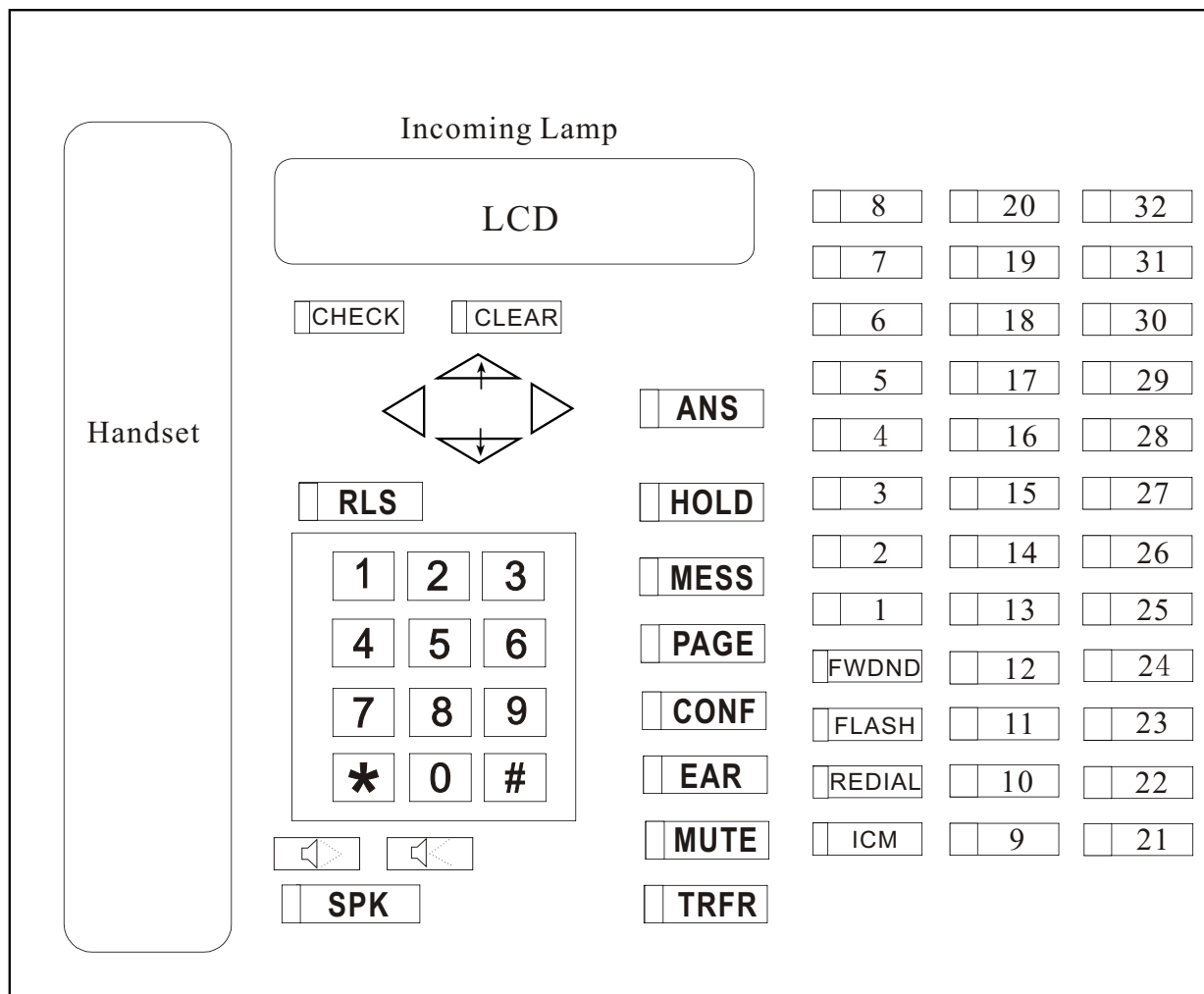
### ◆◆ *Can we use PBX without Exclusive Key Telephone ?*

Yes, you can use both telephones to Program and connect our Hybrid PBX. You can buy any brand regular phone in market to work and program .

Verzio Exclusive Key Telephone use 4-wire cable;  
Regular Telephone use 2-wire cable;

# 1.1 Before Operating

## ◆◆ Introduction of MC-1 Exclusive Key Telephone



(1) **LCD display:** Date and Time; Extension; Calling Duration; Program; Calling Record; Billing Information;

(2) Flexible/function buttons: red/green LED indicators

**Button 1~8:** Outside CO line

**Button 9~32:** One touch key for station/ outside telephone number

(3) Function buttons:

**CHECK** ---- for System program, Button program;

**CLEAR** ---- to clear the System program code or exit from program;

**ANS** ---- answer a call in earphone mode;

**RLS** ---- hand up the conversation in hand-free, earphone mode etc;

**HOLD** ---- to hold a call (call splitting ) or save the new System program;

**MESS** ---- no use at present;

**CONF** ---- conference calls

**PAGE** ---- for the system paging;

**EAR** ---- switch to earphone pickup mode, no voice if pick up handset;

**MUTE** ---- Press it : when off-hook is microphone mute ; on-hook is auto-answer;

## 1.1 Before Operating

### (3) MC-1 Key Telephone Function buttons:

**TRFR** ---- to transfer call, when on-hook is switch to night mode;

**SPK** ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;

**FWDND** ---- for call forward or do not disturb;

**FLASH** ---- to cut off the conversation without hand up;

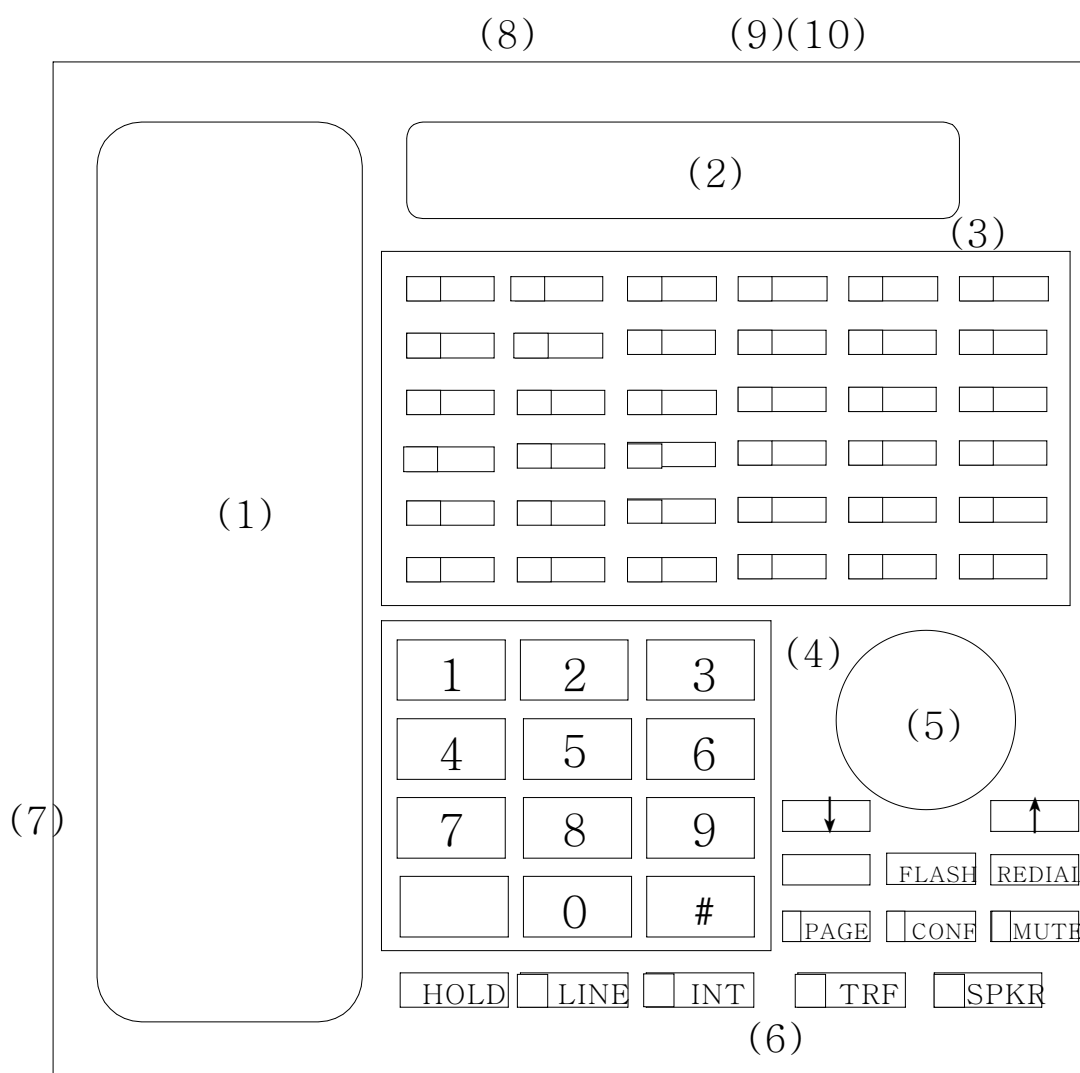
**REDIAL** ---- to redial a number or for a pause during the time you are dialing the number;

**ICM** ---- intercom calls;

🔊 🔊 ---- Volume control: hand-free, handset, earphone, incoming ring;

↓ ↑ ---- Check and page up /down the incoming call numbers;

### ◆◆ Introduction of MC-3 Exclusive Key Telephone



# 1.1 Before Operating

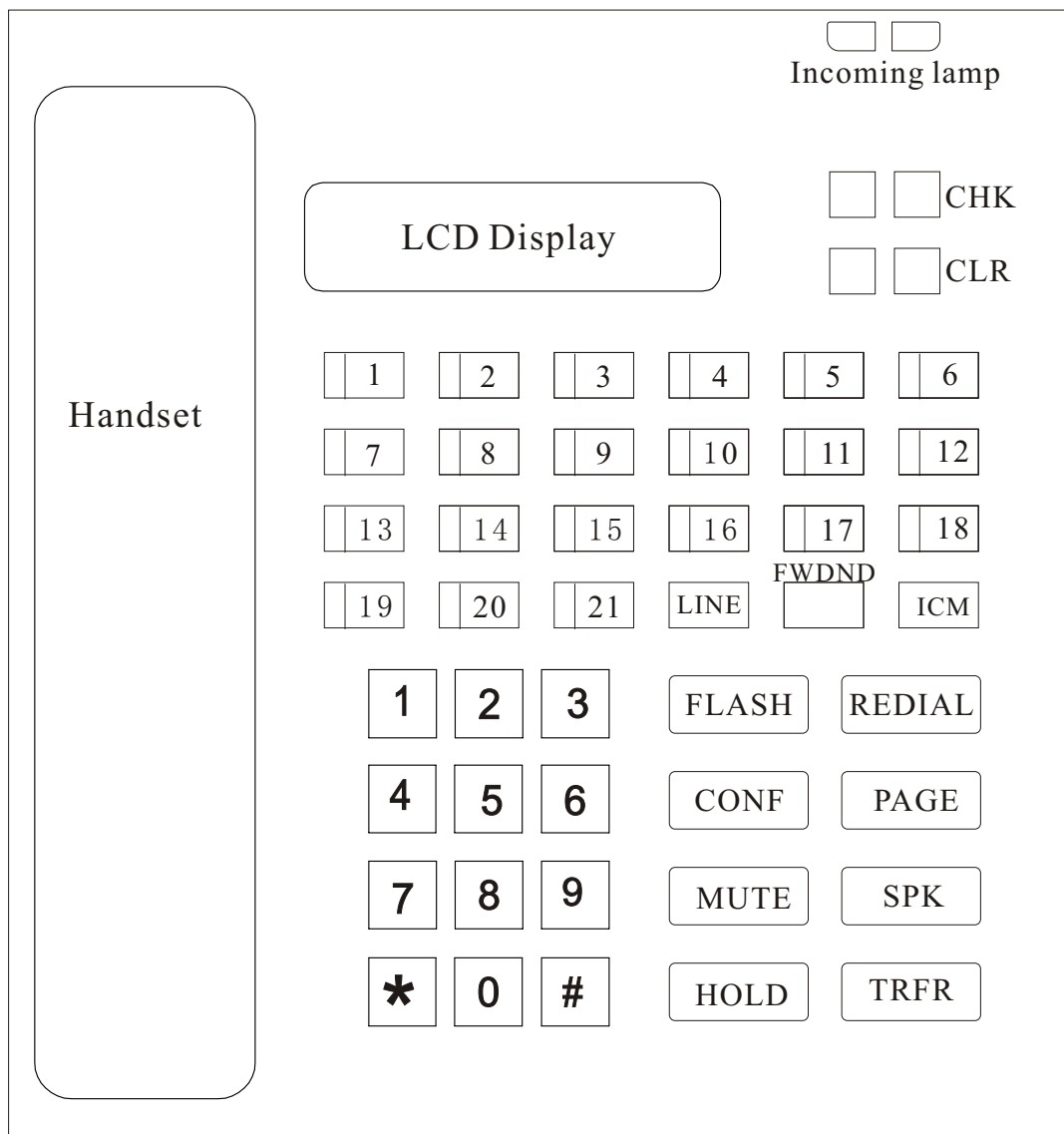
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## ◆◆ Introduction of MC-3 Exclusive Key Telephone

- (1) Handset
- (2) LCD display: Date and Time; CO Number; Calling Duration; Program; Calling Record; Billing Information;
- (3) Flexible/function buttons: red/green LED indicators
  - Button 1~8: CO line
  - Button 9~32: One touch key for station/ outside telephone number
  - Button 33: FNC - Access to the system program status or to the extension program status;
  - Button 34: CLEAR - to check and cancel the programs, or exit;
  - Button 35: DND - to set do not disturb or call forwarding or system speed dialing;
  - Button 36: SCROLL - to switch between the DSS Console(page up /down);
- (4) Dial pad
- (5) Panel display light switch
- (6) Function buttons:
  - FNC**---- For entering System Program, Button Program,same as CHK (CHECK);
  - FLASH** ---- to switch the COs for moment (transfer a call);
  - REDIAL** ---- to redial a number or for a pause during the time you are dialing the number;
  - PAGE** ---- for the system paging;
  - MUTE** ---- for the mute of hand-free;
  - CONF** ---- conference calls
  - SPKR** ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;
  - TRF** ---- to transfer an incoming call or intercom call;
  - INT** ---- intercom calls;
  - LINE** ---- to choose an available CO lines(outside lines);
  - HOLD** ---- to hold a call (call splitting );
- (7) Handset socket
- (8) Telephone set socket
- (9) DSS1 terminal (1~64)
- (10) DSS2 terminal (65~128)

# 1.1 Before Operating

## ◆◆ Introduction of MC-40,50 Exclusive Key Telephone



**FLASH** ---- to hand up a conversation without put handset;

**REDIAL** ---- to redial a number;

**LINE** ---- to choose an available outside lines;

**FWDND** ---- Call forwarding or Do Not Disturb

**ICM** ---- intercom calls;

**CHK**---- for System Program , Button Program

**CLR**---- Clear the program or exit;

**CONF** ---- Conference calls

**PAGE** ---- for the system Page;

**MUTE** ---- for the Mute of hand-free; or close the voice during conversation;

**SPK** ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;

**HOLD** ---- to Hold a call (call splitting ); or save the new System Program;

**TRFR** ---- to Transfer a call ;or transfer mouse curse during system program;

**Button 1~21** : are for CO Line and extensions and also for programmable DSS buttons;

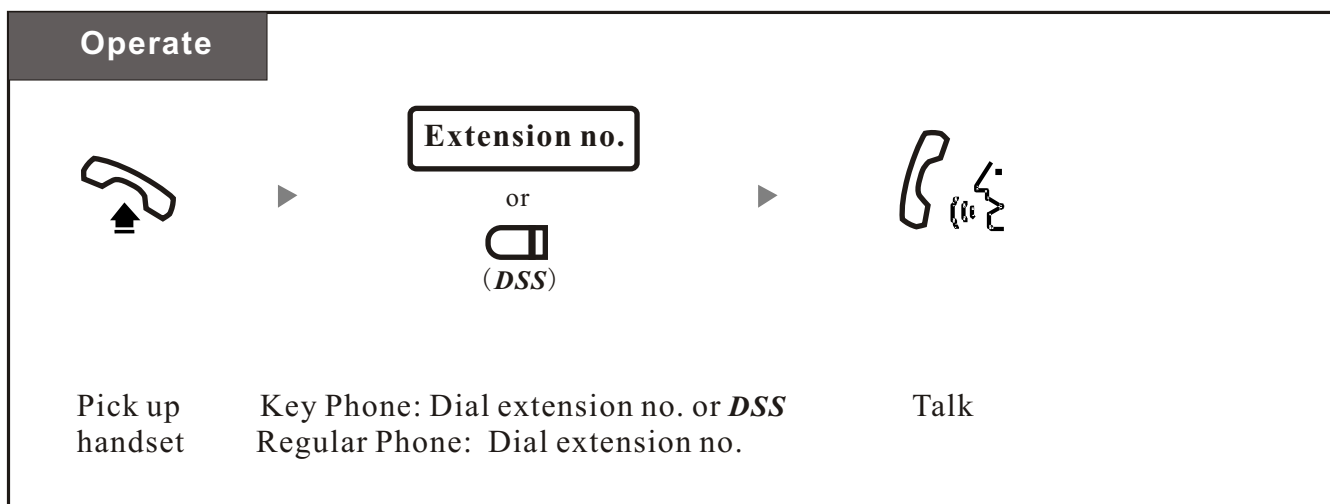
## 1.2 Making Calls

### 1.2.1 Basic Calling

- Intercom Call
- Call Operator
- Call Outside

#### ◆◆ Intercom Calling

The extension call to other extension.



Extension no. : It means numbers 8001,8002,8003 ~8064 ;



DSS: the flexible programmable button at Key Telephone.  
Example: Button 1 is CO1; Button 6 is Extension 8006 etc.

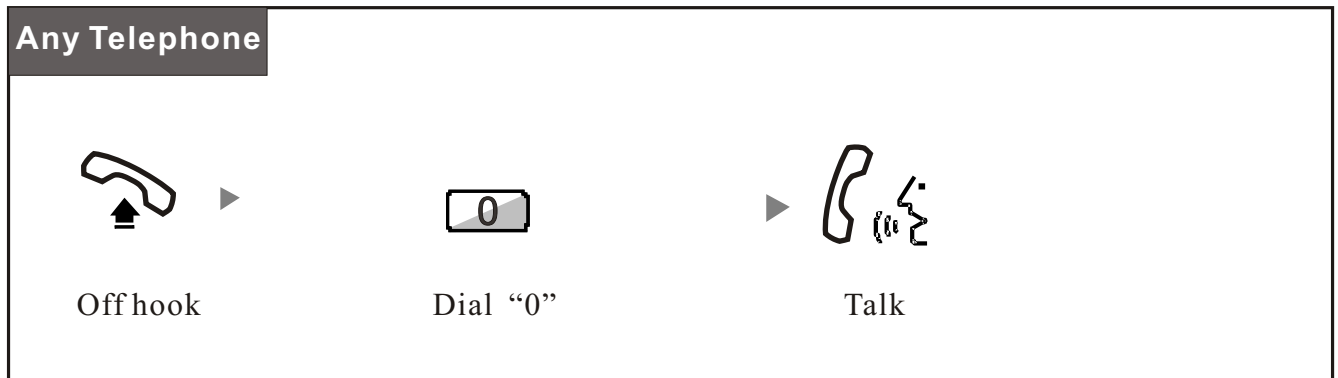
DSS button: Press **CHK** 2times, and then press DSS 1~21/ 32 . You can see the means for each button in Key Telephone LCD

DSS button Program : Press **CHK** 2times + Program Button (1~21 or 32),then :  
Press 2 + XXXX: to set Extension Number at the button;  
Press **HOLD** to save the program.

## 1.2 Making Calls

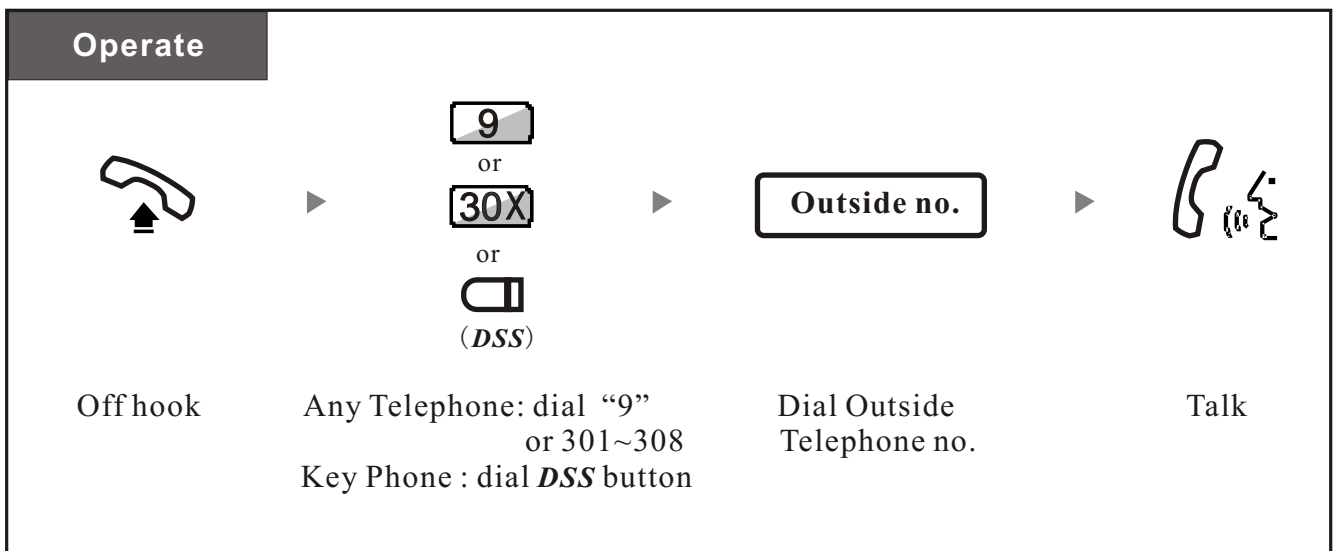
### ◆◆ Call Operator

The extension call to Operator /Reception extension.



### ◆◆ Call Outside

The extension call to outside telephone number .



Any Telephone: It refer to Regular Phone or Miracall Key Telephone;

Dial "9" : System will auto-select any idle free Outside Line;

Dial "301~308": System will directly select desired Outside Lines 1~8;

Dial **DSS**: It can directly select the Outside Lines at Key Telephone.

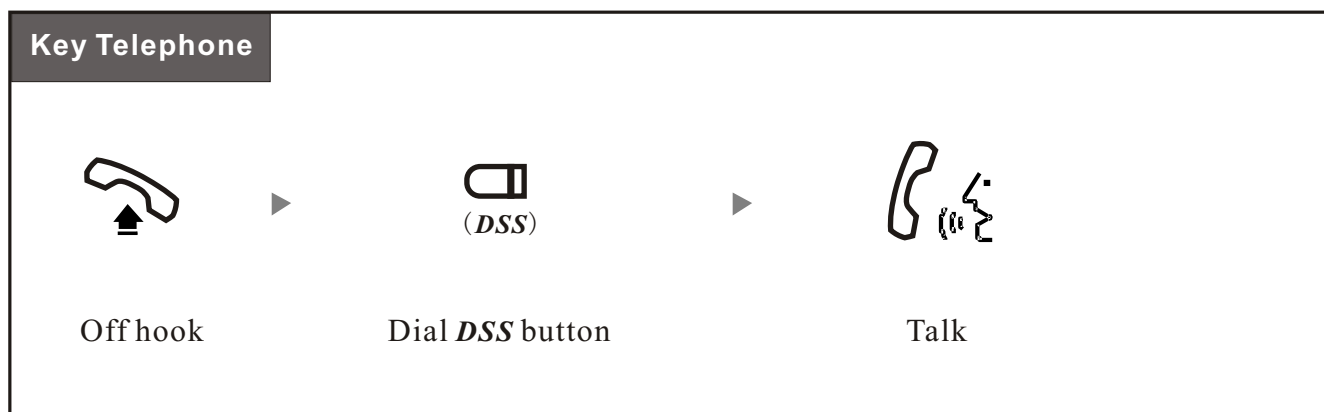
## 1.2 Making Calls

### 1.2.2 Easy Dialing

- One-touch Dialing
- System Speed Dialing
- Hotline Dialing

#### ◆◆ One-touch Dialing

User can store an outside Telephone Number into the Key Telephone flexible DSS button, and press only 1-button for one-touch Dialing.



This feature only workable at Key Telephone;

DSS Program : On-hook > Press **CHK** 2times > Press programmable **DSS** > Input "3" > Input outside telephone number > **HOLD**

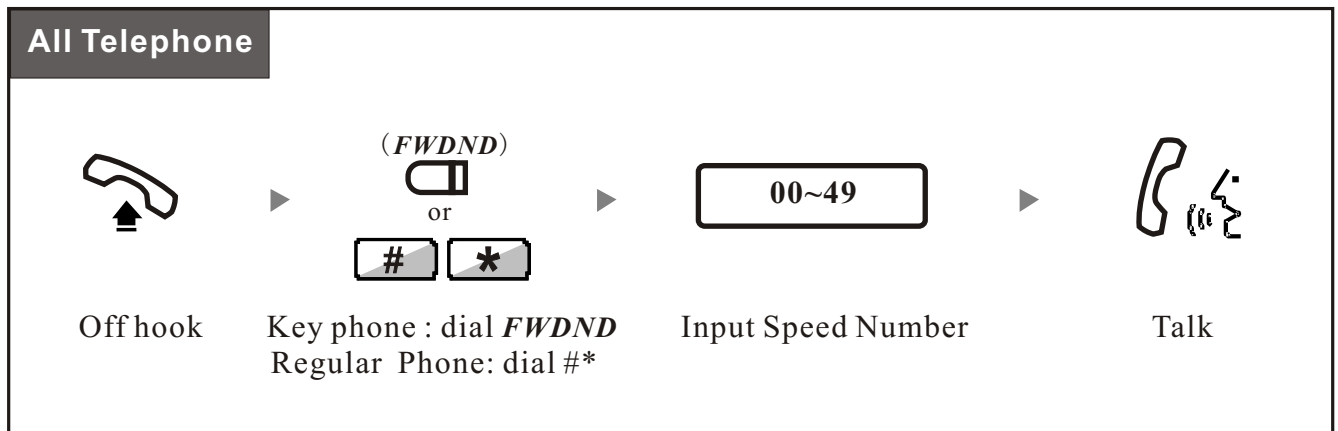
#### ◆◆ System Speed Dialing

You can make abbreviation number to make speed dialing call . PBX support total 50 public speed dialing numbers from "00" ~ "49".

Each extension can use these abbreviation numbers, without the limitation of Toll Restriction.



## 1.2 Making Calls



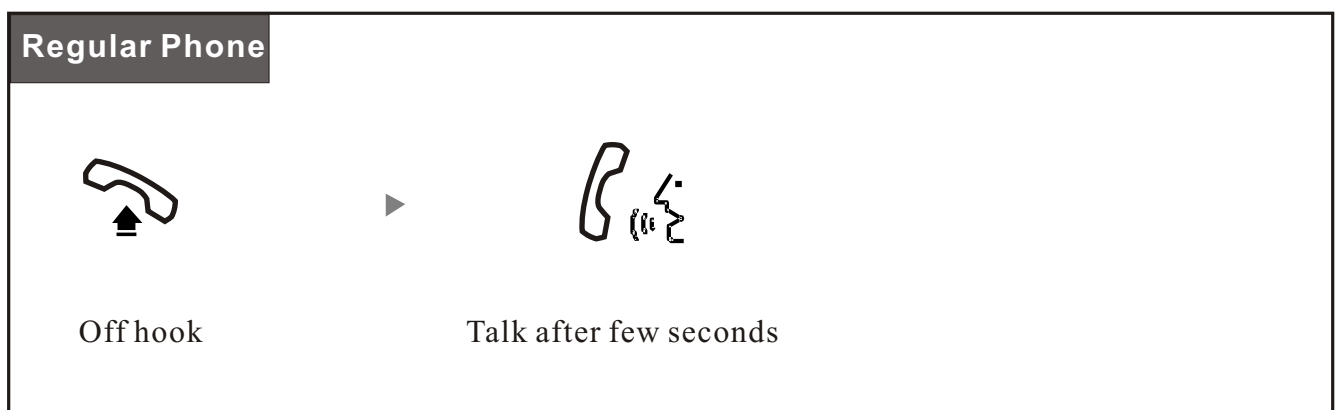
How to set 13827774499 as speed dialing number for code 49 ?

Program at key phone : On-hook > Press **CHK** 3times > Input “1967590” > Input “03” “49” > Press button **TRFR** > Input “9 13827774499” > Press button **HOLD** , then **CLR** .

Program Regular Phone: Off-hook > Input “#787 1967590-03-49-\* 9 13827774499#

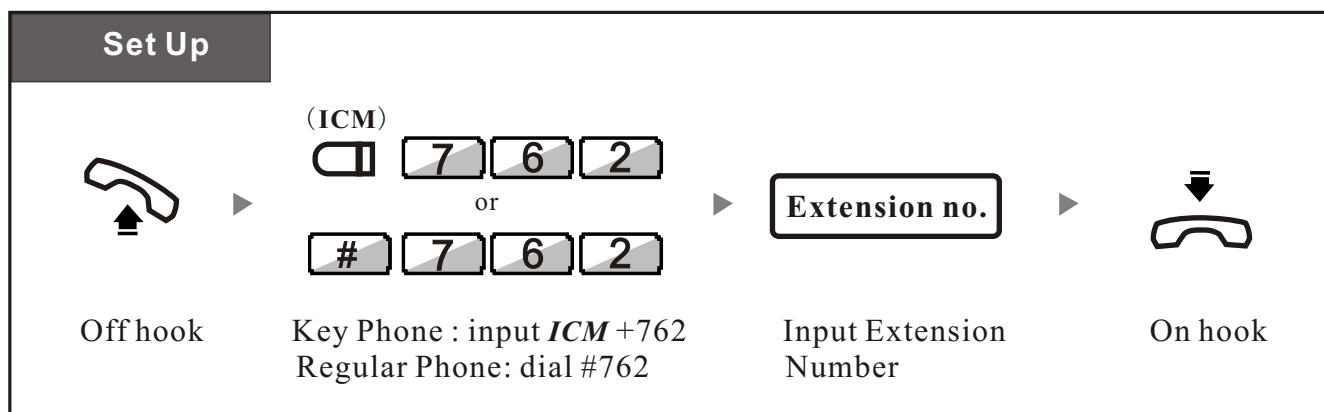
### ◆◆ Hotline Dialing

Pick up the handset and you can call to a fixed extension without dial their number.

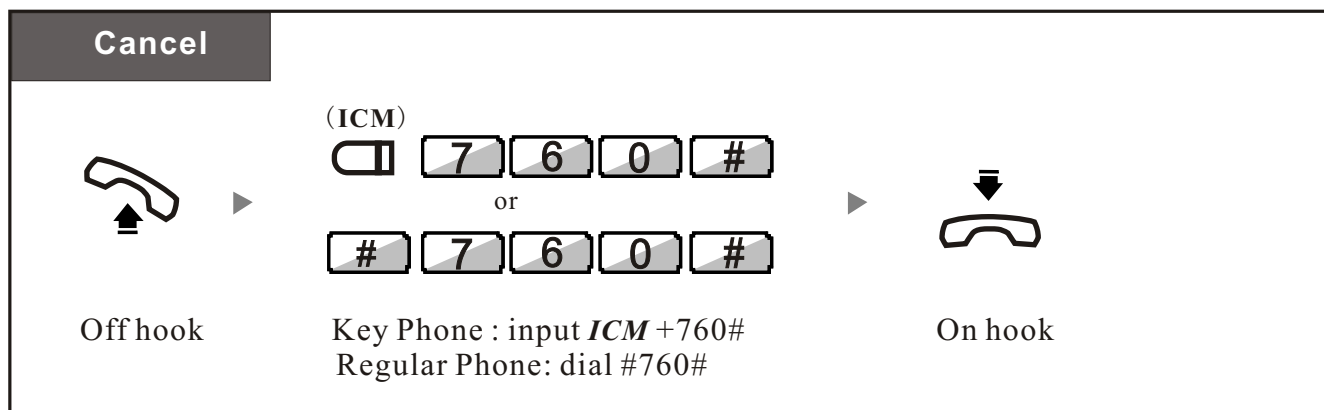


## 1.2 Making Calls

**Set up** the hotline extension number.



**Cancel** the hotline extension number.



The PBX should be in intercom status when pick up handset;

Can not set hotline ring to Outside number, only for intercom extension number.

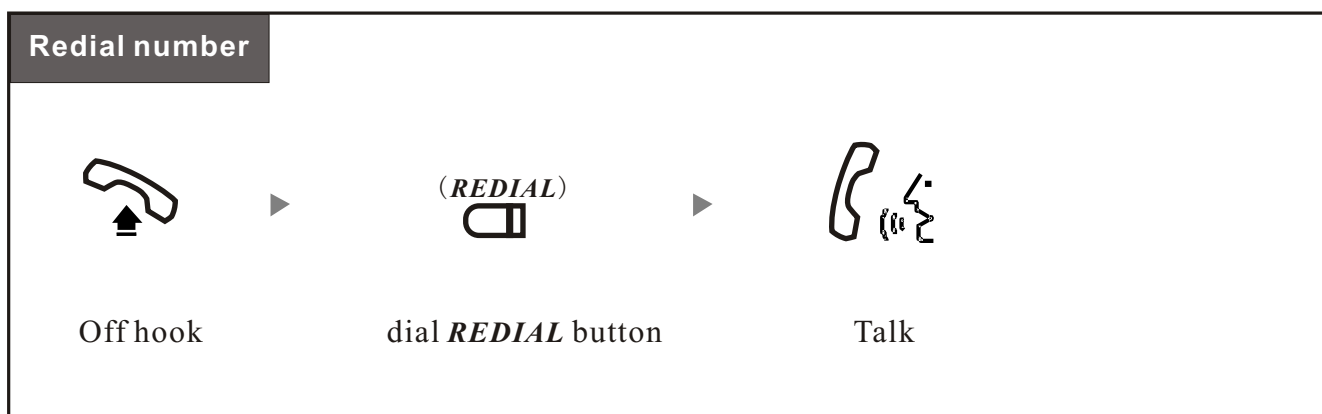
This feature is very useful to use at Elevator or Massage room etc.

## 1.2 Making Calls

### 1.2.3 Last Number Redial

#### ◆◆ Last Number Redial

You can dial the last number again by quickly press Re-dial button.



### 1.2.4 When Dialed Party is Busy or No-answer

- Automatic Callback on Busy
- Call Override
- Call Cut-off

#### ◆◆ Automatic Callback on Busy

You can set the telephone to receive callback ringing:  
when a dialed extension becomes idle,  
when your desired Outside Line that is in use by another extension becomes idle.

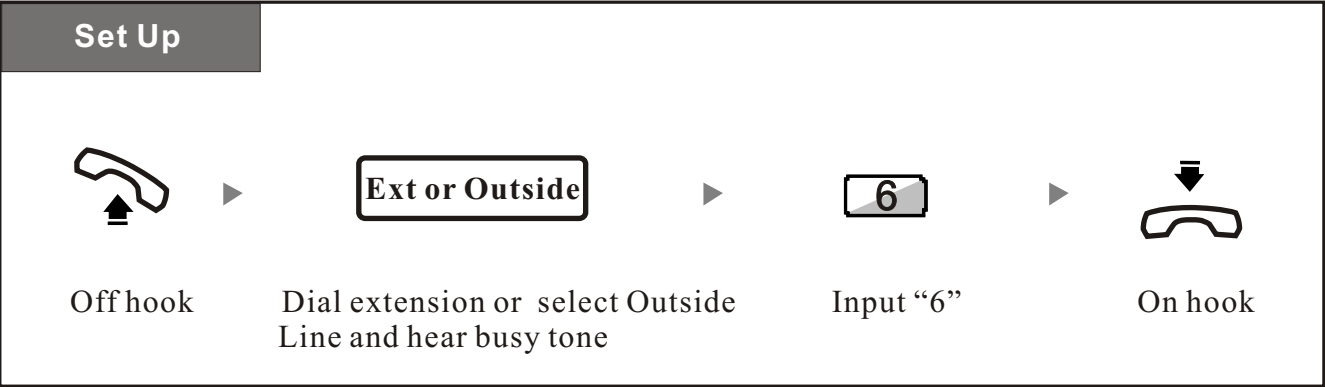
When you answer the callback ringing:

For an outside call: The line is seized.

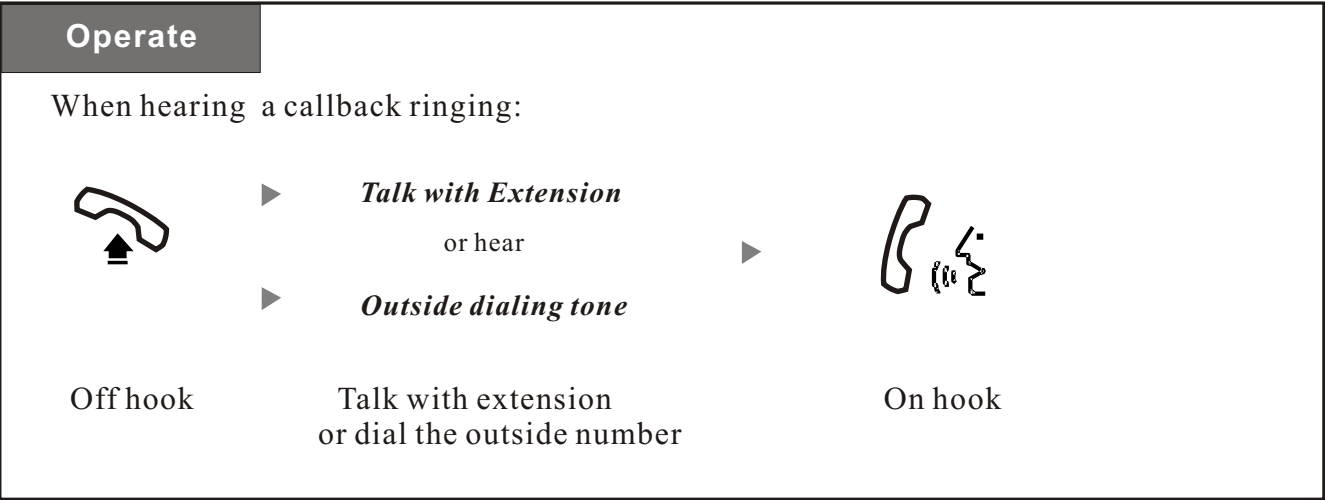
For an intercom call: The called extension starts ringing automatically.

# 1.2 Making Calls

**Set up** call-back on busy for Extension-busy and Outside line -busy.



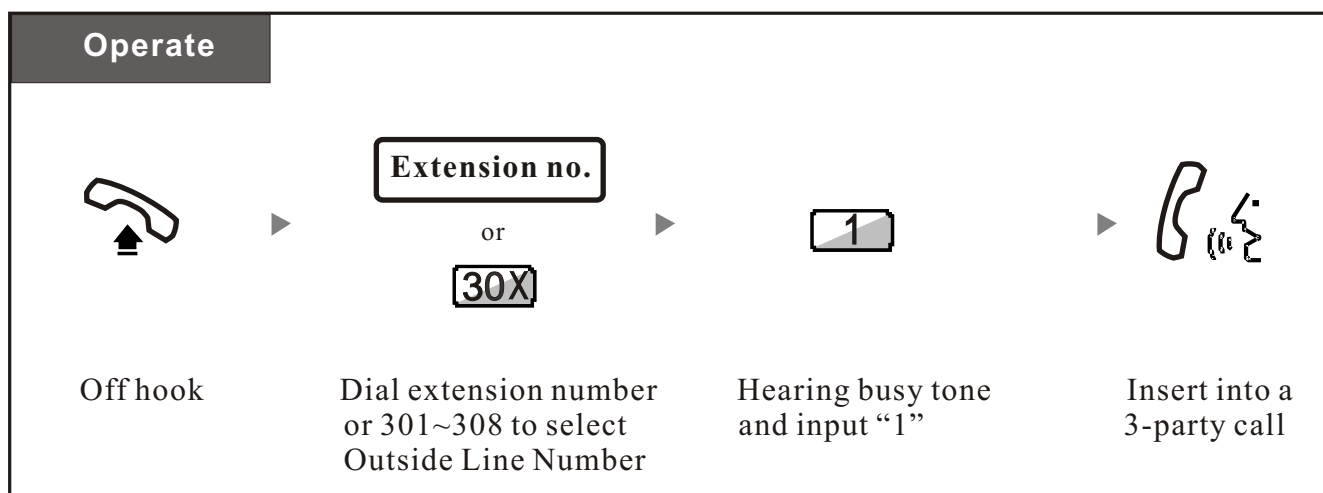
When there’s call back ringing, simply pick up the extension to talk with back extension party, or you will hear outside dialing tone when the busy outside line become idle.



## 1.2 Making Calls

### ◆◆ Call Override

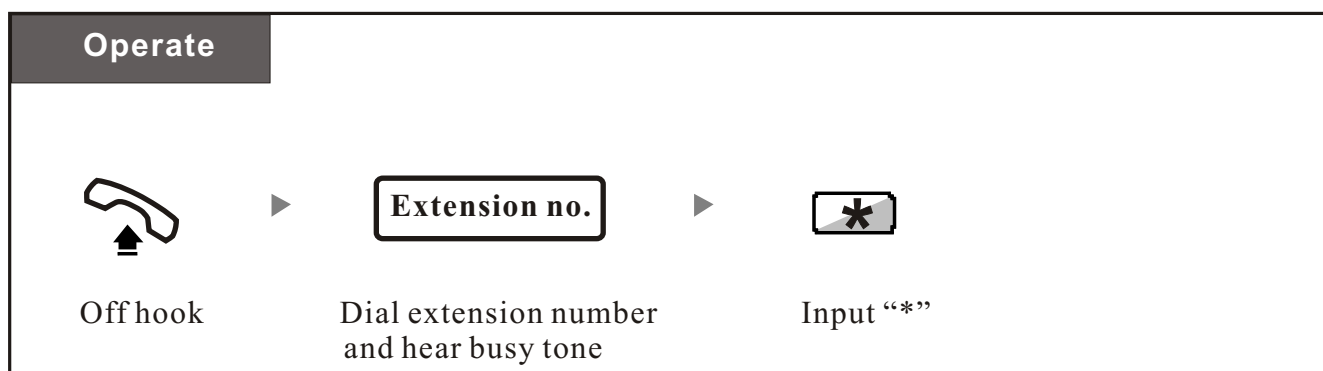
You can insert into an Outside Line conversation to establish 3-party conference call.



30X: X=1~8, to use this code to select the Outside Line;  
You can not insert into an Intercom conversation;

### ◆◆ Call Cut-off

You can cut off an Outside Line conversation.



You can not insert into an Intercom conversation;  
To enable extension (ABC) with Call Cut-off function:  
by Key phone: **CHK** 3times > 1967590 > 22 > ABC-**TRFR** - 31010 -**HOLD**  
by Regular phone: Hand-up > #787-1967590-22 ABC\*31010 #


## 1.2 Making Calls







### 1.2.5 Calling with Account PIN Code

#### ◆◆ Walking Account Code Call






After getting an account code from the manager, you can use this code to make long distance call in any other extensions without the limitation of the Toll Restriction. All the cost will be charged at this account code, not charged at the extensions.

**Operate**




▶ <sup>(ICM)</sup>      Password no.  Outside no.

or dial

▶     Password no.  Outside no.

Off hook      Key phone: *ICM* + ###\* password + 9 + outside line number  
Regular phone: ###\* password + 9 + outside line number





You can assign total 255 password for different person.

To program password:

by Keyphone: **CHK** 3times > 1967590 > 20 > (001~255) > ABCDE# > Y > Z

001-255: selectable series number;

ABCDE: desired password;

Y = 1~6 ,means Toll Restriction Class 1~6;

Z = 1~4, means different group to use different outside line.

The cost will be charged at the account ABCDE, not at the extension;

Within 10 seconds after hand-on, you can still use the password to make long-distance call.

## 1.2 Making Calls

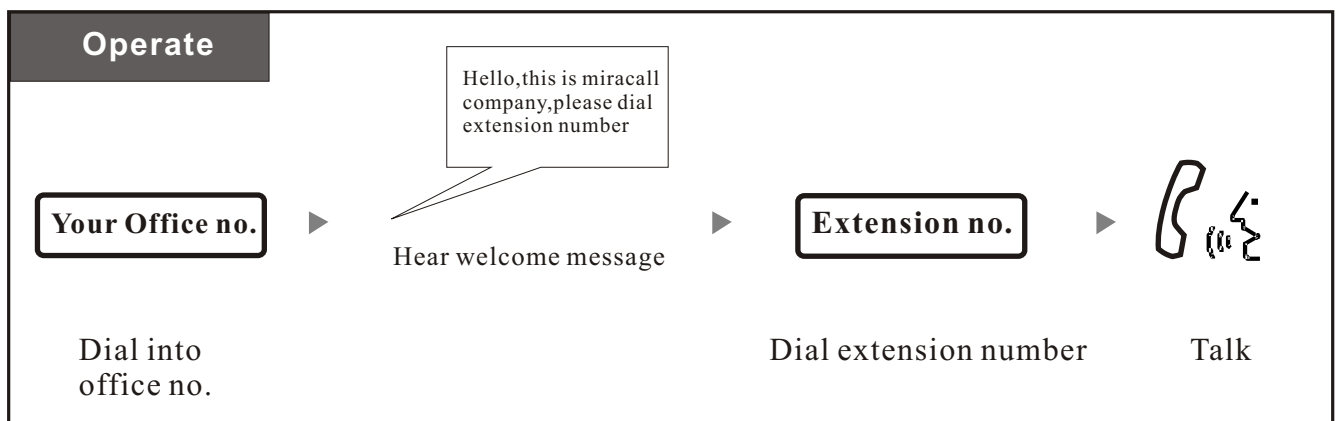
### 1.2.6 Direct Inward System Access (DISA)

#### ◆◆ Calling Through DISA

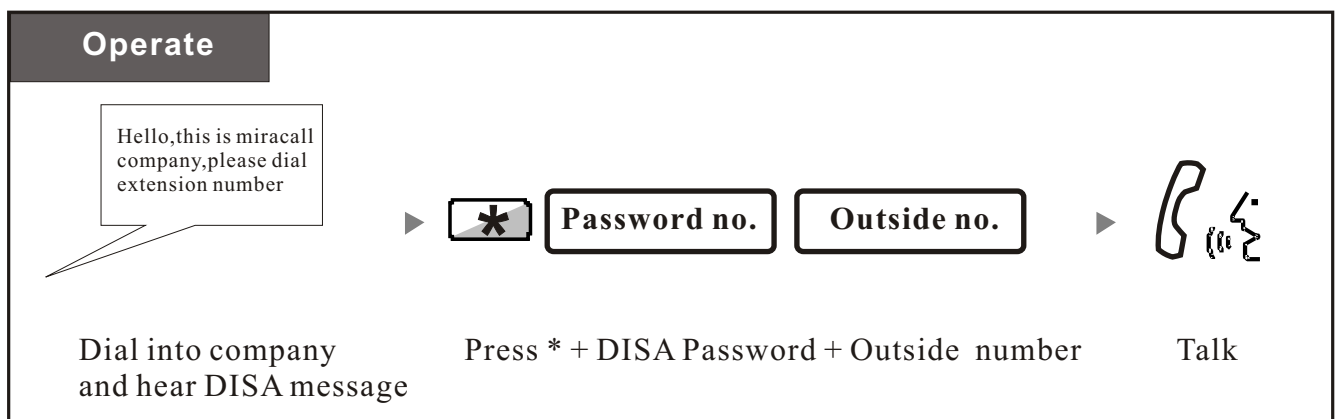
Through the DISA welcome message, the outside party can:

1. call to the desired extension number without the transfer of Operator;
2. call to the second Outside Line Number party by using the security DISA Password.

#### Outside Party to Extension:



#### Outside Party to Outside Party:



Press # to extend calling duration if you hear “du,du” tone, after conversation press ## to exit.

To set Outside-outside DISA call password by Keyphone:

**CHK** 3times > 1967590 > 21 > 001~008-**TRFR** - ABCDEFG -Y-Z-**HOLD**

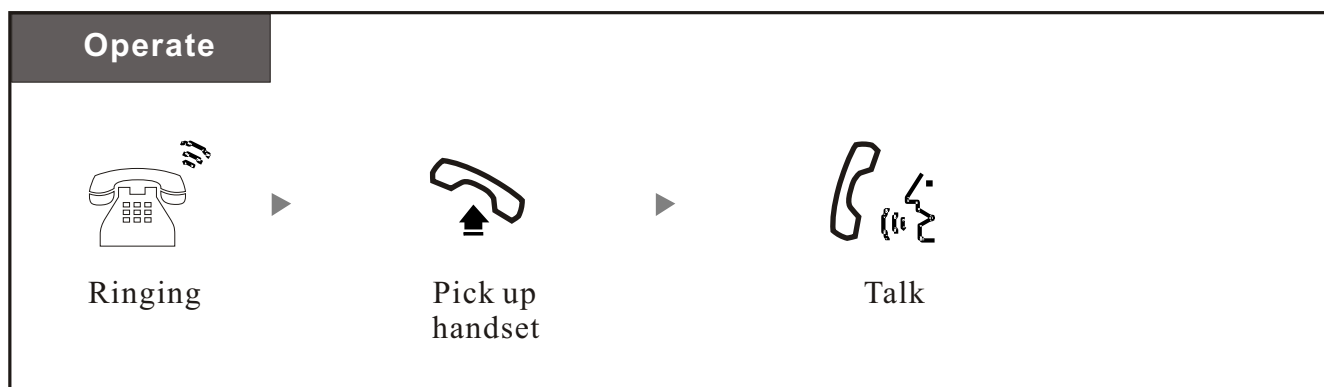
001-008: max. 8 password ; Y=1~6 Toll Class, Z=1~4 type

## 1.3 Receiving Calls

### 1.3.1 Answering Calls

#### ◆◆ Answering Call by lift Handset

Simply pick up the ringing extension to answer the incoming call.



#### ◆◆ Answering Call by Handfree

Without lift the handset to answer the incoming call.

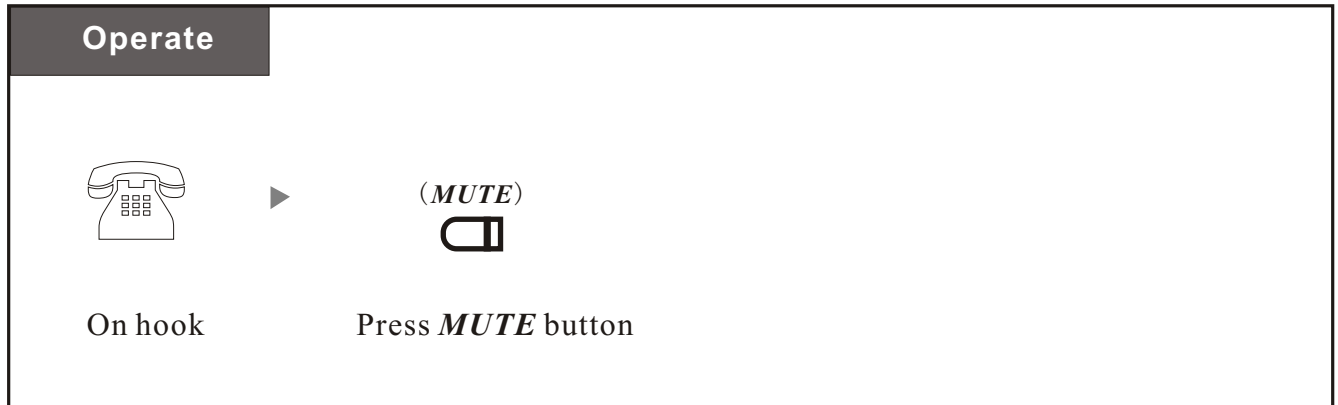




## 1.3 Receiving Calls

### ◆◆ Answering Call by *MUTE*/Auto-answer

You will automatically receive the call and hear Caller 's conversation in on-hook mode.



If during conversation and press *MUTE*, then the Caller will not hear your voice;

*To cancel:* press *MUTE* again;

### 1.3.2 Call Pickup

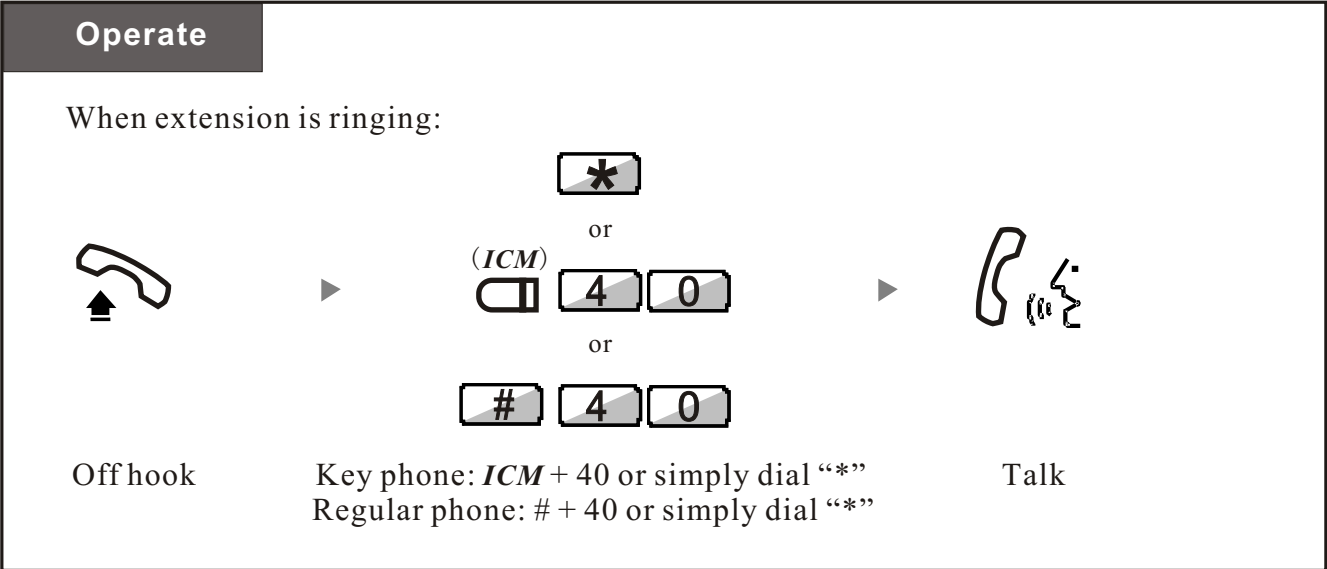
You can answer an incoming call that is ringing at other extension:

- Randomly Pickup: pick up a ringing extension randomly;
- Group Pickup: pick up a ringing extension within same group;
- Directed Pickup: pick up a specified ringing extension ;

# 1.3 Receiving Calls

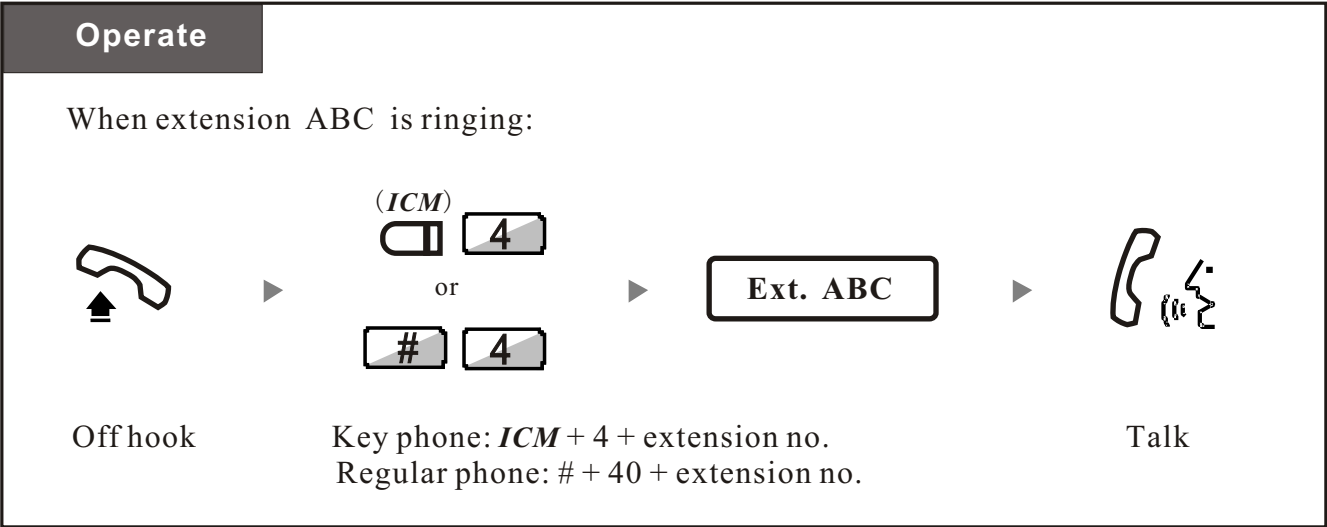
## ◆◆ Randomly Pickup

Can pick up the extension which firstly ring .



## ◆◆ Directed Pickup

Can pick up the specified ringing extension .



## 1.3 Receiving Calls

### ◆◆ Group Pickup

You can only allow to pick up the ringing extension within your own group, can not pick up extension outside or in another group (total 4 group max, use same code above to pick up) .



To set by Keyphone: **CHK** 3times > 1967590 > 24 > 1~4 **TRFR** - 001~064 - 1 or 0

1~4: selectable 1~4 pickup group;

001~064: extension numbers to join or exit from group;

1 or 0 : “1” means join the group, “0” means exit from the group;

### 1.3.3 Do Not Disturb (DND)

The call will not ring to your extension after set DND feature

#### Key Phone



On-hook



Press **FWDND**

(ICM)



To cancel: Press **ICM + 70#**

#### Regular Phone



Off-hook



To Setup: Press **#7110#**



On-hook



Off-hook



To Cancel: Press **#70#**



On-hook

# 1.4 During a Conversation



## 1.4.1 Call Transfer

### ◆◆ Call Transfer


You can transfer the conversation to other extension party.


Operate

During a conversation:


Key phone ▶  ▶  or 

Extension no.

 ▶  On hook

Regular phone ▶  Hook-flash ▶ 

Extension no.

 ▶  On hook




Key phone: press **TRFR** + DSS or Extension no.  
Regular phone: Flash + Extension no., Hand up

### ◆◆ One-touch Transfer

By key phone,you can use only a single DSS button to transfer the call.

Key Phone

During a conversation:

 ▶  Talk ▶  On hook

Press DSS

Talk

On hook

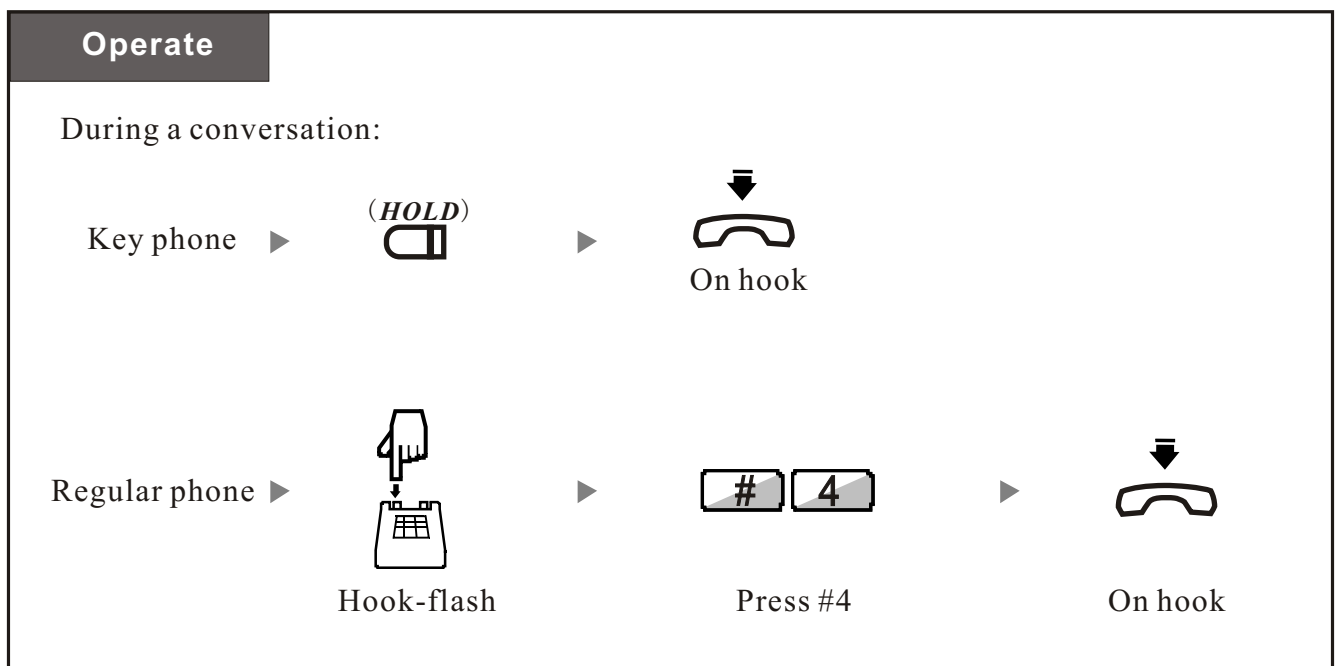
## 1.4 During a Conversation

### 1.4.2 Call Hold

- Call Hold
- Call Hold Retrieve

#### ◆◆ Call Hold

You can hold the call party during conversation.



#### ◆◆ Call Hold Retrieve


You take back the holding party and continue the conversation.

# 1.4 During a Conversation



## ◆◆ Call Hold Retrieve

Key Phone


Retrieve from holding extension:


(ICM)  


▶



Retrieve from specified extension:


(ICM)  






▶

Extension no.

Retrieve from specified outside line:

(ICM)  






▶




Outside Line  
port no.(1-8)

Regular Phone



Retrieve from holding extension:



▶



Retrieve from specified extension:



▶






▶

Extension no.

Retrieve from specified outside line:

▶



▶

Outside Line  
port no.(1-8)

## 1.4 During a Conversation

### 1.4.3 Call Waiting

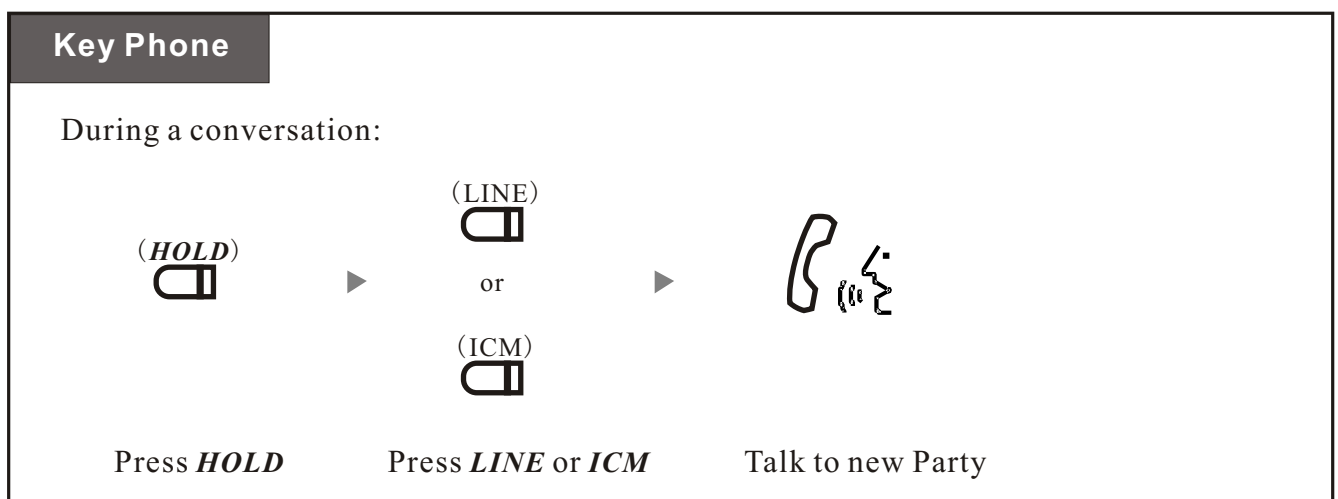
During conversation, a call waiting tone occurs when an outside call has been received or another extension will remind you there's a call waiting.

- To disconnect the current call and talk to the new party
- To Hold the current call and talk to the new party

#### ◆◆ Disconnect Current and Talk to New Party



#### ◆◆ Hold Current and Talk to New Party








# 1.4 During a Conversation

Hold by regular phone and talk to new party:

**Regular Phone**


During a conversation:



Hook-flash

Press #4

Talk to new Party





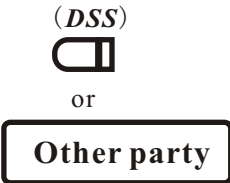


 You can use Call Retrieve function to take back the holding calls. By these ways, you can talk to different party alternately .

## 1.4.4 Call Splitting

You can talk to 2-party alternatively at same time.

**Key Phone**

During a conversation



Press **HOLD**

Dial **DSS** button  
or other party's number

Talk to new Party

Press **TRFR**  
talk to original party

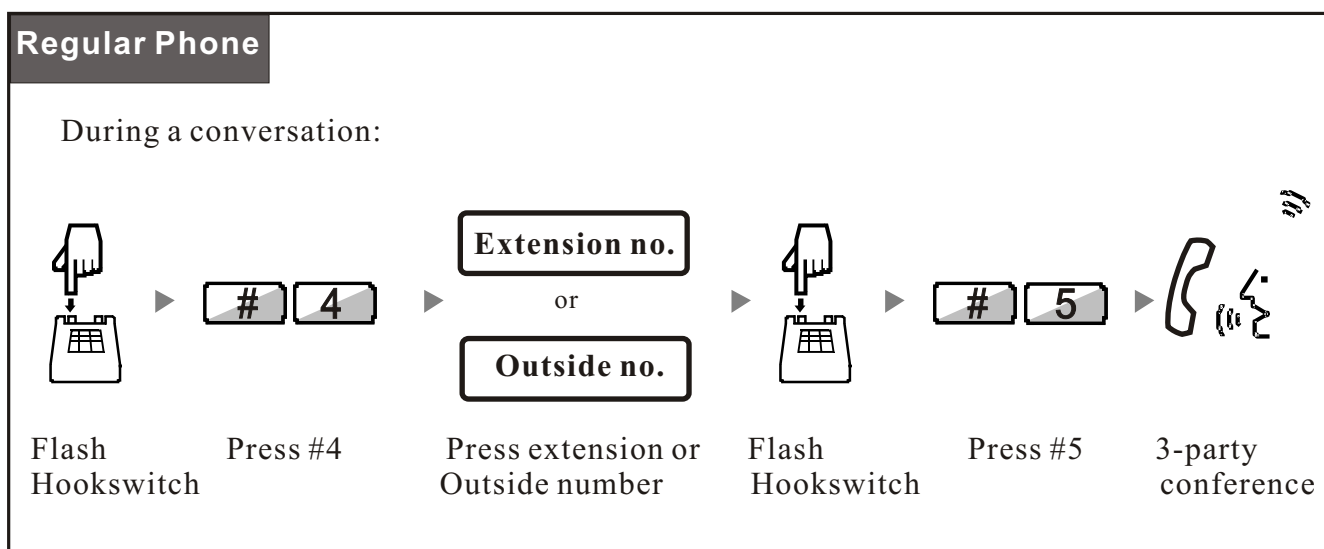
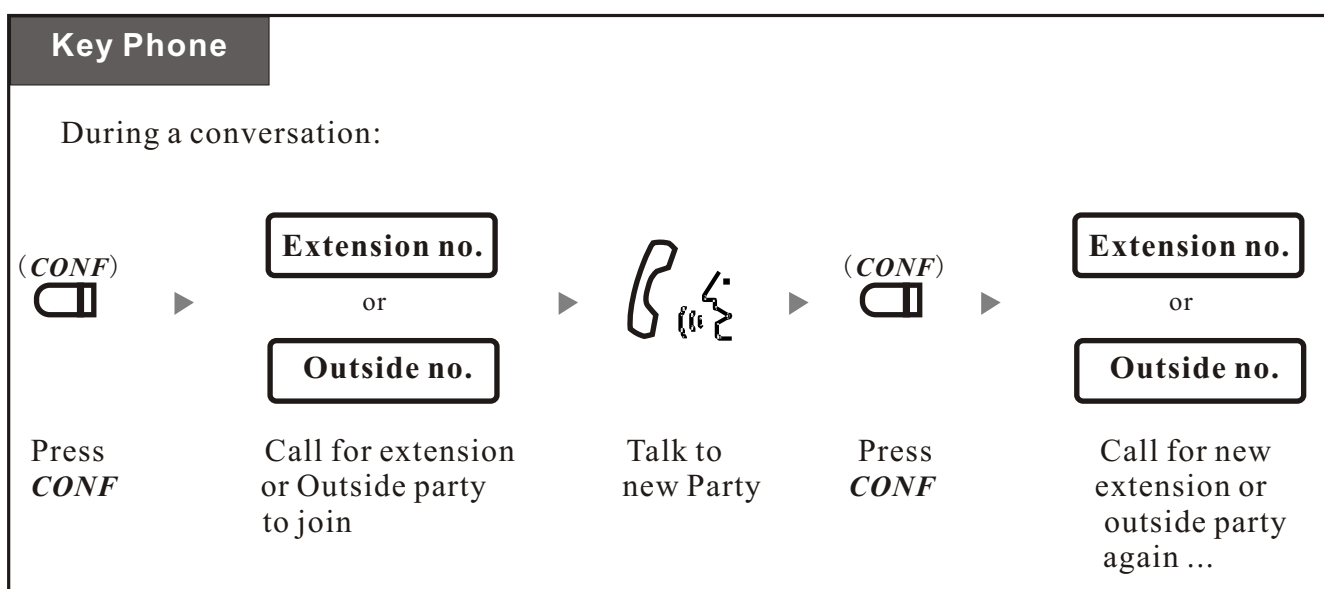


## 1.4 During a Conversation

### 1.4.5 Multi-party Conference Call

#### ◆◆ To Call For a Conference

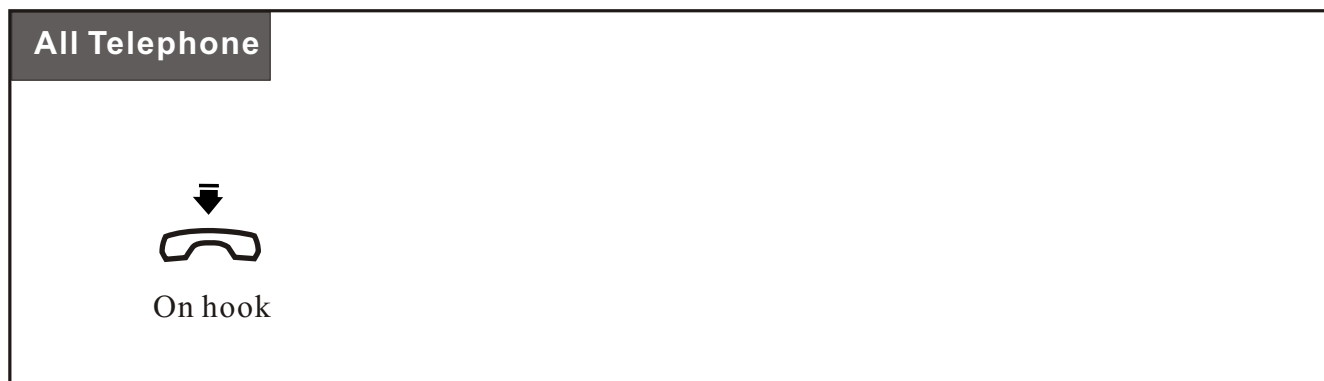
During a 2-party conversation, you can add a third party or more parties join together for a 3-party or 8-party conference call.



## 1.4 During a Conversation

---

### ◆◆ To leave a Conference



Max. 3-party conference for regular phone and max. 8 party for key phones(2lines + 6 extension party or all parties are 8 extension. ).  
The attender only need to simply hand up the handset to exit from conference.

### 1.4.6 Microphone Mute

During a conversation ,you can quiet your voice and your environmental voice ,so that the remote party can not hear what you are talking about.







To enable conversation ,simply press **MUTE** button again.  
You can see the **MUTE** button become Red and return to normal.



## 1.5 When You Leave Desk

### 1.5.1 Call Forwarding to PBX Extension

You can forward the incoming call to some specified extension before you leave.

- Forwarding All Calls
- Call Forwarding On-busy
- Call Forwarding No-answer
- Call Forwarding Busy & no-answer
- Call Forwarding Cancel





Key Phone	
Forward All Calls:	<p>▶ (ICM)  7 1 ▶ Extension no. ▶ 1 #</p> <p>Press <i>ICM</i> + 71 + extension no. + 1#</p>
Forward on busy:	<p>▶ (ICM)  7 1 ▶ Extension no. ▶ 2 #</p> <p>Press <i>ICM</i> + 71 + extension no. + 2#</p>
Forward no answer:	<p>▶ (ICM)  7 1 ▶ Extension no. ▶ 3 #</p> <p>Press <i>ICM</i> + 71 + extension no. + 3#</p>
Forward on busy and no answer:	<p>▶ (ICM)  7 1 ▶ Extension no. ▶ 4 #</p> <p>Press <i>ICM</i> + 71 + extension no. + 4#</p>

Cancel	
To Cancel Call Forward at Key Telephone:	
	▶ (ICM)  7 0 #
On-hook	Press <i>ICM</i> + 70#

# 1.5 When You Leave Desk


You can forward the incoming call to some specified extension before you leave.

Regular Phone


Forward All Calls:	▶		▶	#	7	1	▶	Extension no.	▶	1	#	Off hook ,Press # 71 + extension no. + 1#
Forward on busy:	▶		▶	#	7	1	▶	Extension no.	▶	2	#	Off hook ,Press # 71 + extension no. + 2#
Forward no answer:	▶		▶	#	7	1	▶	Extension no.	▶	3	#	Off hook ,Press # 71 + extension no. + 3#
On busy and no answer:	▶		▶	#	7	1	▶	Extension no.	▶	4	#	Off hook ,Press # 71 + extension no. + 4#

To cancel Call forwarding at a Regular Phone.

To Cancel

▶

#70#

▶

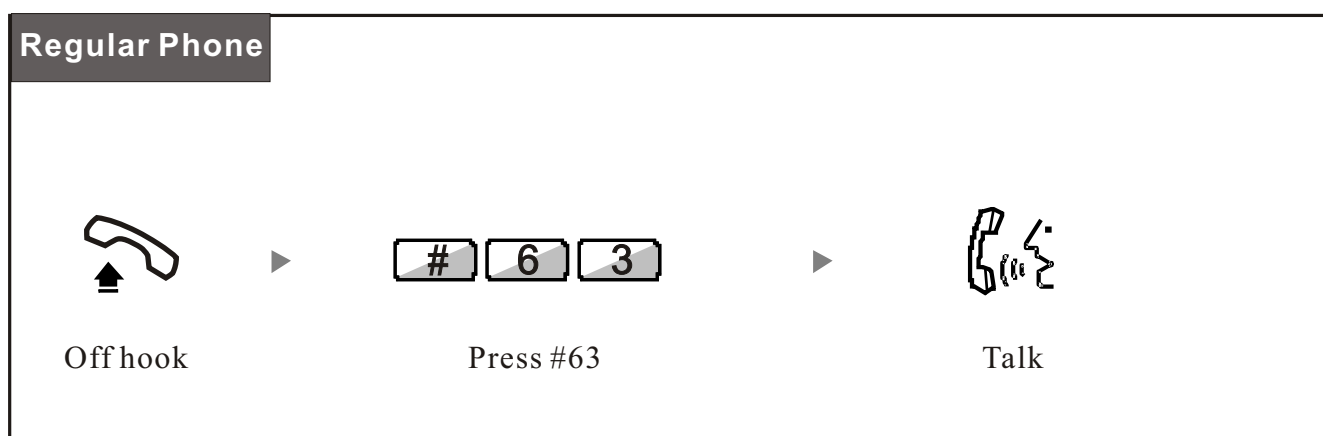
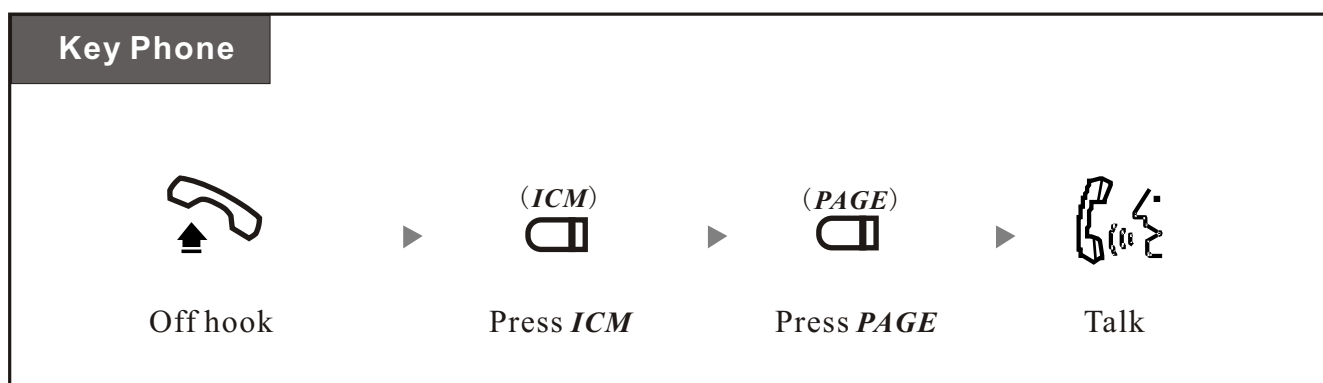
Off hookPress #70#On hook

## 1.6 Paging

You can make a voice announcement to key telephone or external Public Address system etc..

- To Paging
- Paging Pickup
- Paging to Multi-party
- Set/Cancel Paging to Multi-party

### ◆◆ To Paging



## 1.6 Paging

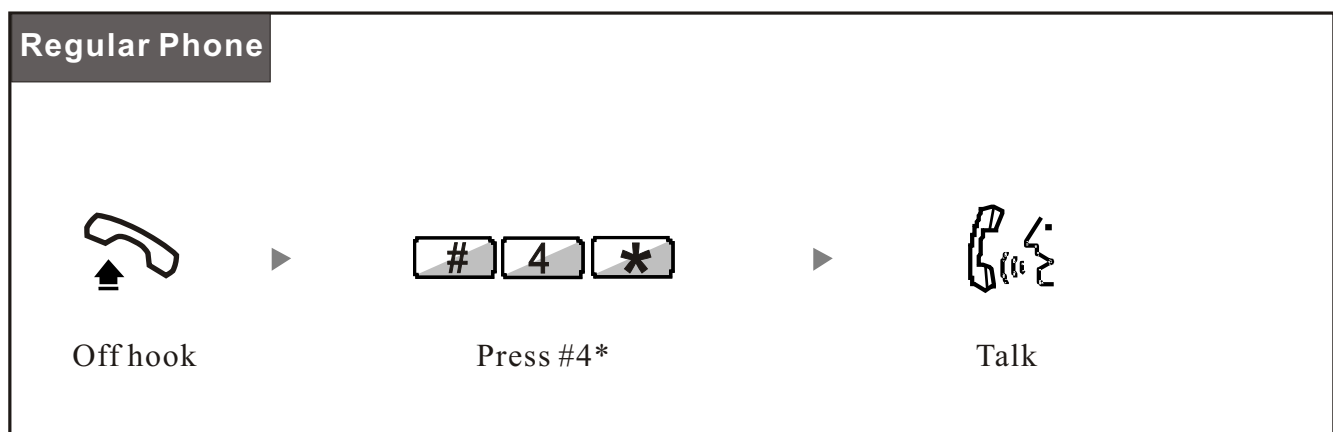
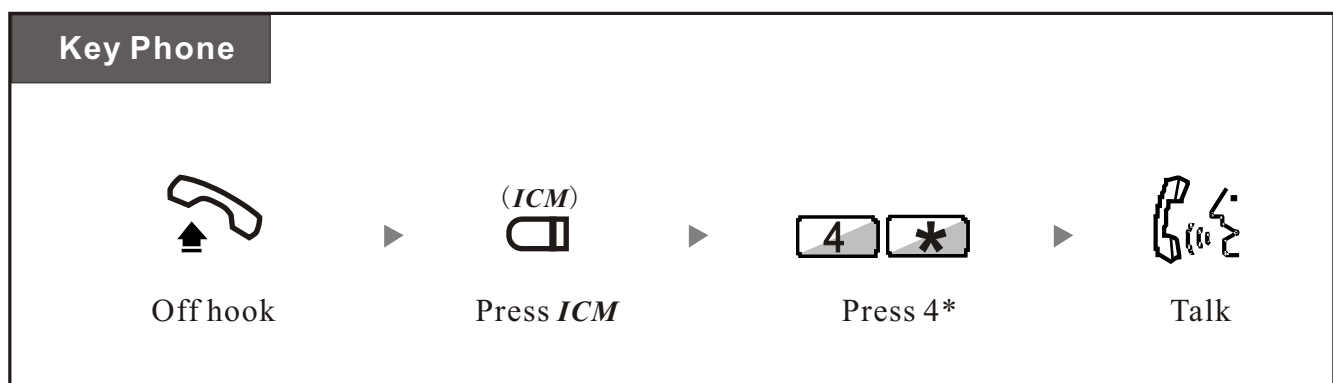
---

You can make a voice announcement to key telephone or external Public Address system etc..

- To Paging
- Paging Pickup
- Paging to Multi-party
- Set/Cancel Page to Multi-party

### ◆◆ Paging Pickup

You can pick up a paging call from other extension.



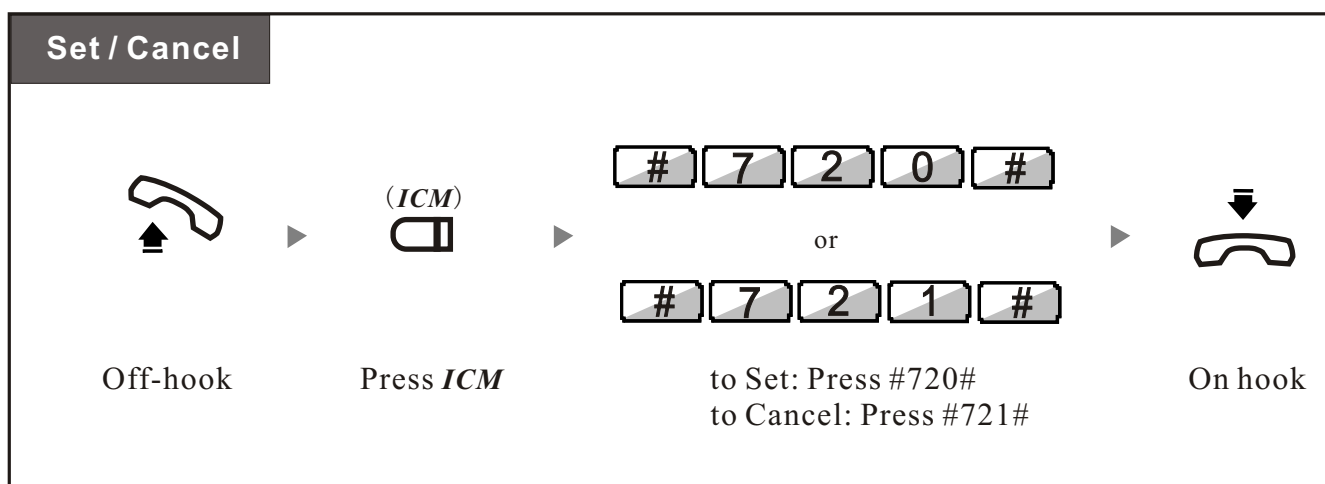
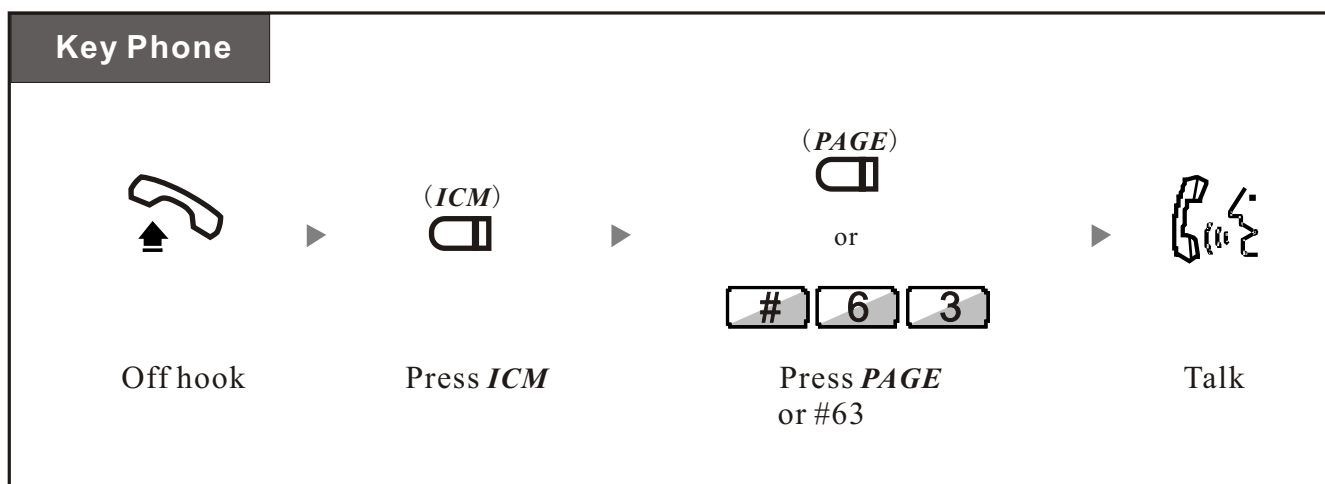
## 1.6 Paging

You can make a voice announcement to key telephone or external Public Address system etc..

- To Paging
- Paging Pickup
- Paging to Multi-party
- Set/Cancel Paging to Multi-party

### ◆◆ *Paging to Multi-party (Key Phone)*

You can make Page announcement to more extensions at same time.



## 1.7 Special Operations


### 1.7.1 Timed Remind


You can receive an alarm at your telephone to remind you that there will be a meeting, appointment or just a morning call.




#### ◆◆ To Set/Cancel at Key Telephone



**Key Phone**

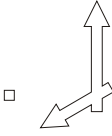
You can set 2 Time Reminders


  
Off hook


  
(ICM)


  
772

  
HHMM





  
#




  
Extension no.



  
#


Press **ICM+772** + Hour/Minute + # extension no. # (alarm1)  
(16:28)


  
Off hook


  
(ICM)

  
773


  
HHMM


  
#




  
Extension no.


  
#


Press **ICM+773** + Hour/Minute + # extension no. # (alarm2)  
(22:08)


  
Off hook

  
(ICM)


  
772


  
#




  
Extension no.


  
#


Press **ICM+772** + # extension no. # (to Cancel alarm1)


  
Off hook

  
(ICM)

  
773

  
#

  
Extension no.

  
#

Press **ICM+773** + # extension no. # (to Cancel alarm 2)



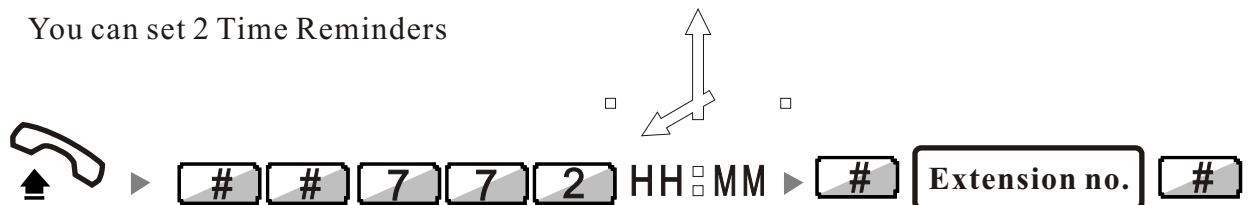
## 1.7 Special Operations

### 1.7.1 Timed Remind


#### ◆◆ To Set/Cancel at Regular Telephone

##### Regular Phone

You can set 2 Time Reminders




Off hook      Press ##772 + Hour/Minute + # extension no. # (set alarm1)  
(16:28)




Off hook      Press ##773 + Hour/Minute + # extension no. # (set alarm2)  
(22:08)

To *Cancel* :



Off hook      Press ##772 + # extension no. # (to Cancel alarm1)



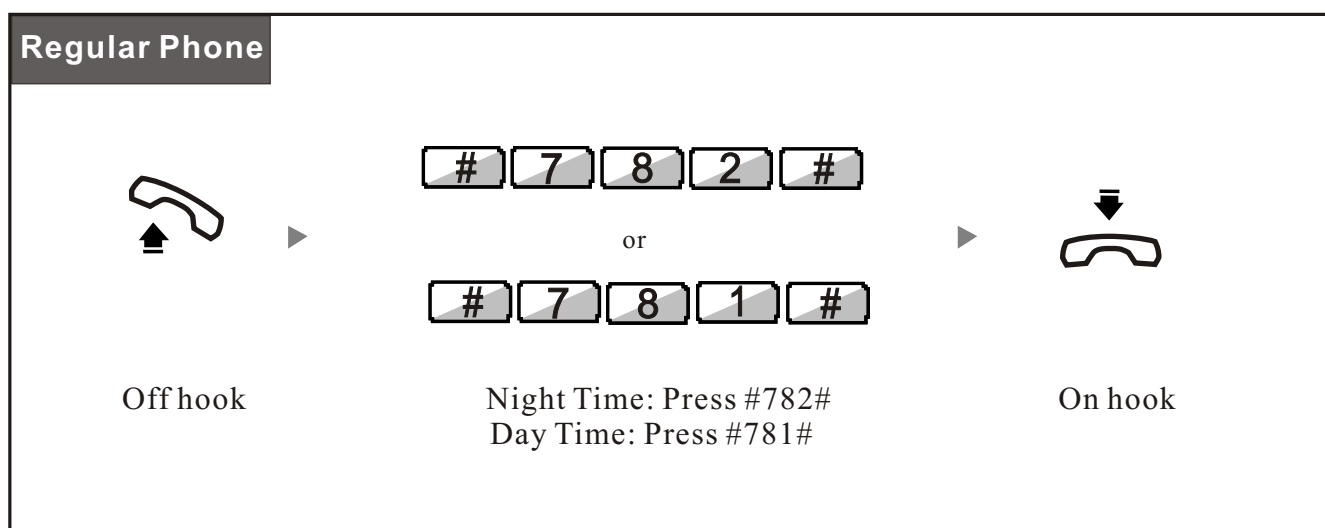
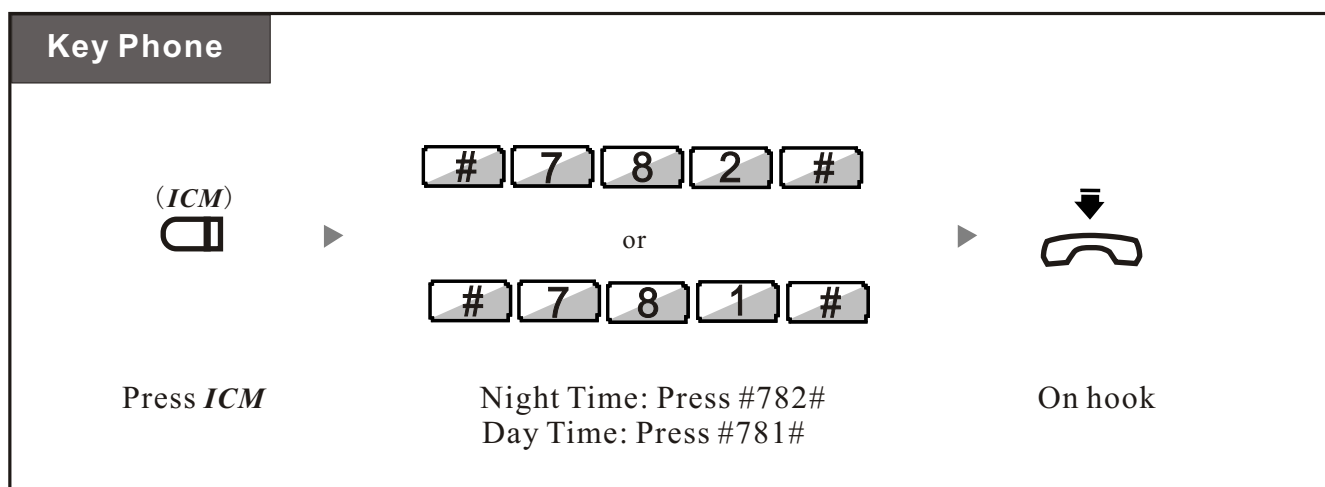
Off hook      Press ##773 + # extension no. # (to Cancel alarm 2)

## 1.7 Special Operations

### 1.7.2 Day/Night Switch Manually

Operated by hand, you can switch system to Night Time or Day Time at the 001 port.

#### ◆◆ To set Night or Day Time



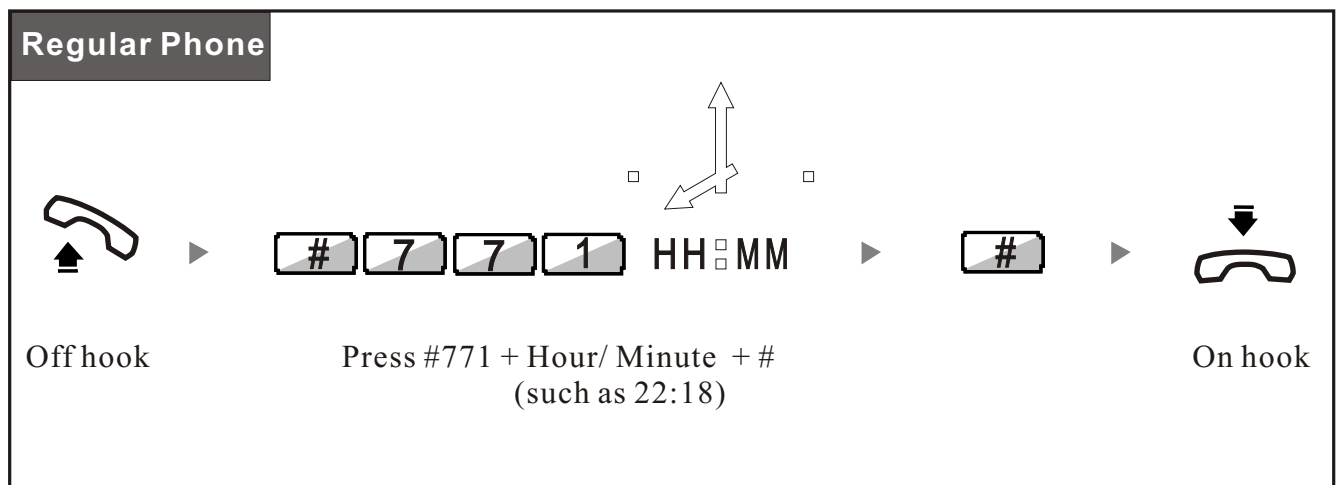
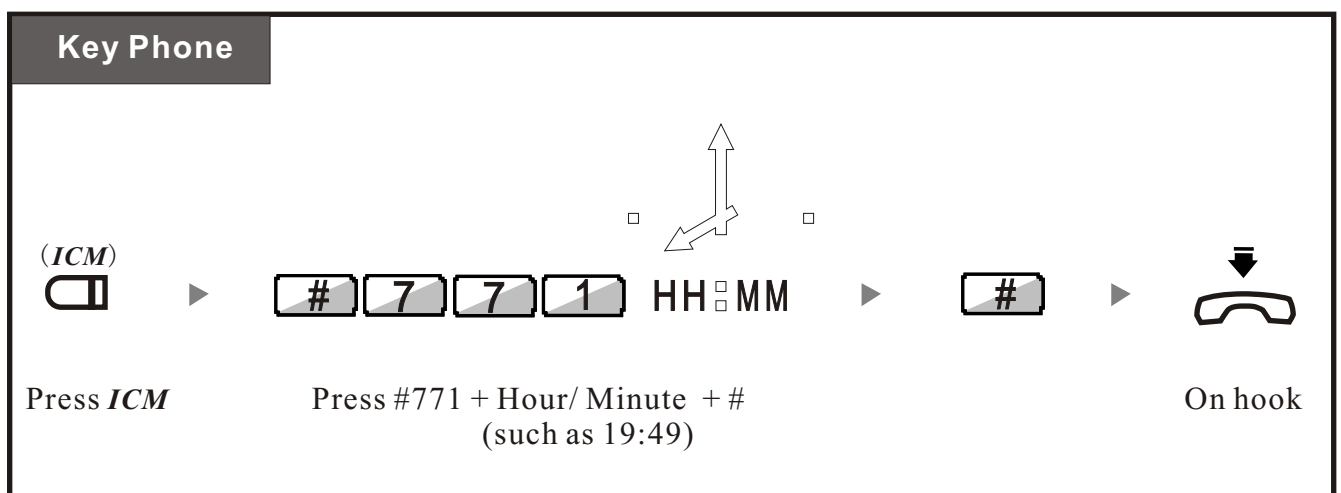
This operate can only set at PBX extension port 001.  
Key Telephone can set but can not be regarded as an alarm phone !

## 1.7 Special Operations

### 1.7.3 Time Adjustment

You can correct the system time (24H) at the PBX, such as displaying at key phone LCD.

#### ◆◆ How to Operate



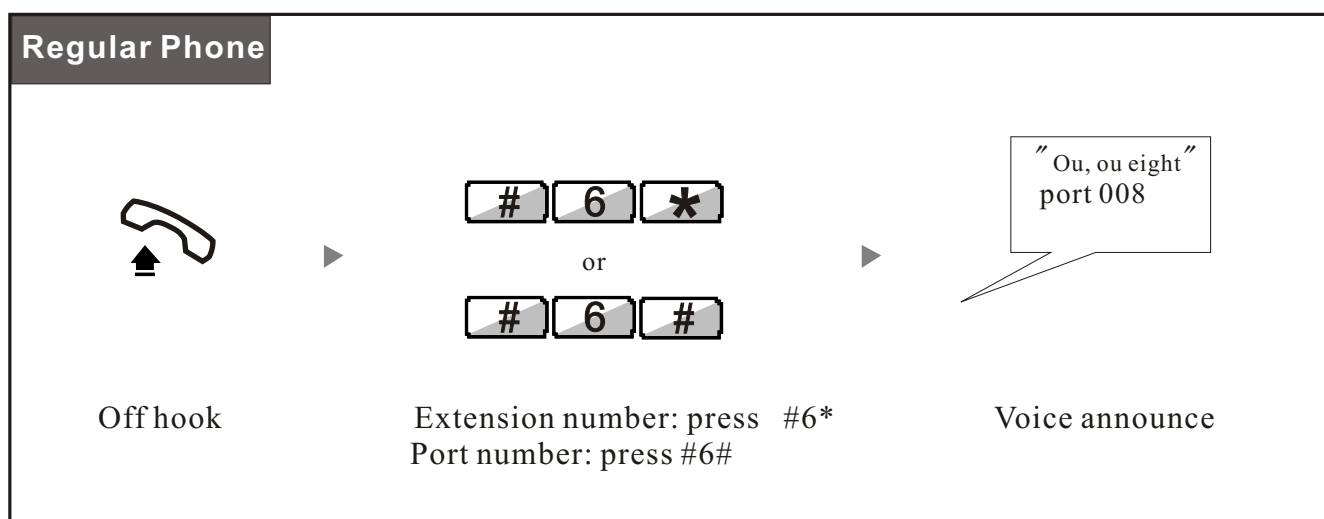
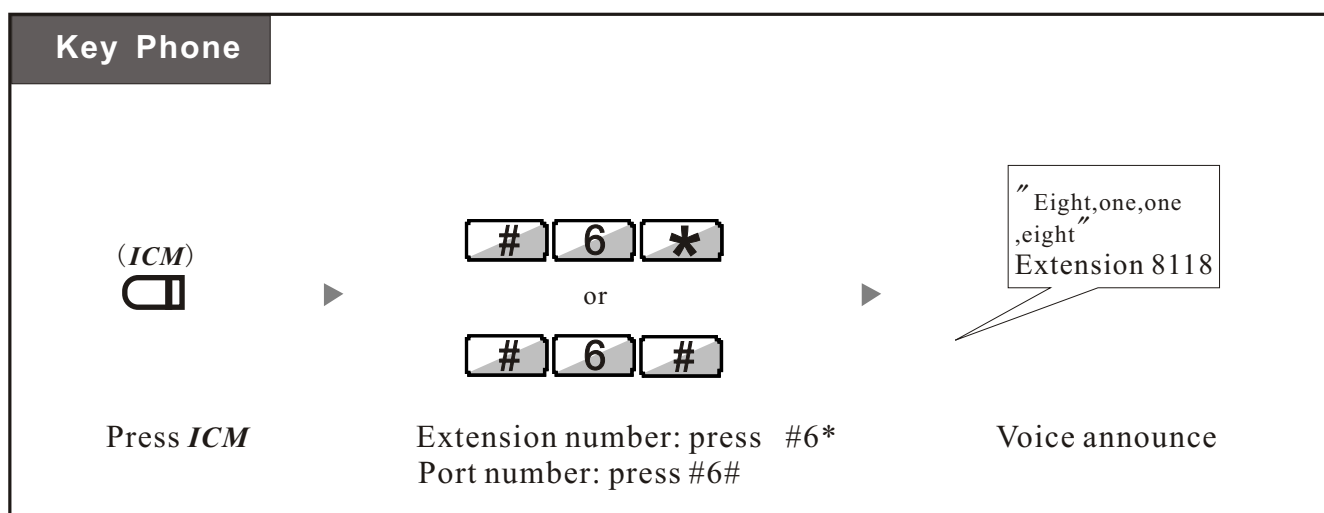
This operate can only set at PBX extension port 001.  
Time for Hour & Minute is in 24-hours format.

## 1.7 Special Operations

### 1.7.4 Voice Report Extension or Port Number

Extension can voice announce it's current number, such as 8008 "eight ,ou,ou, eight".

#### ◆◆ How to Operate



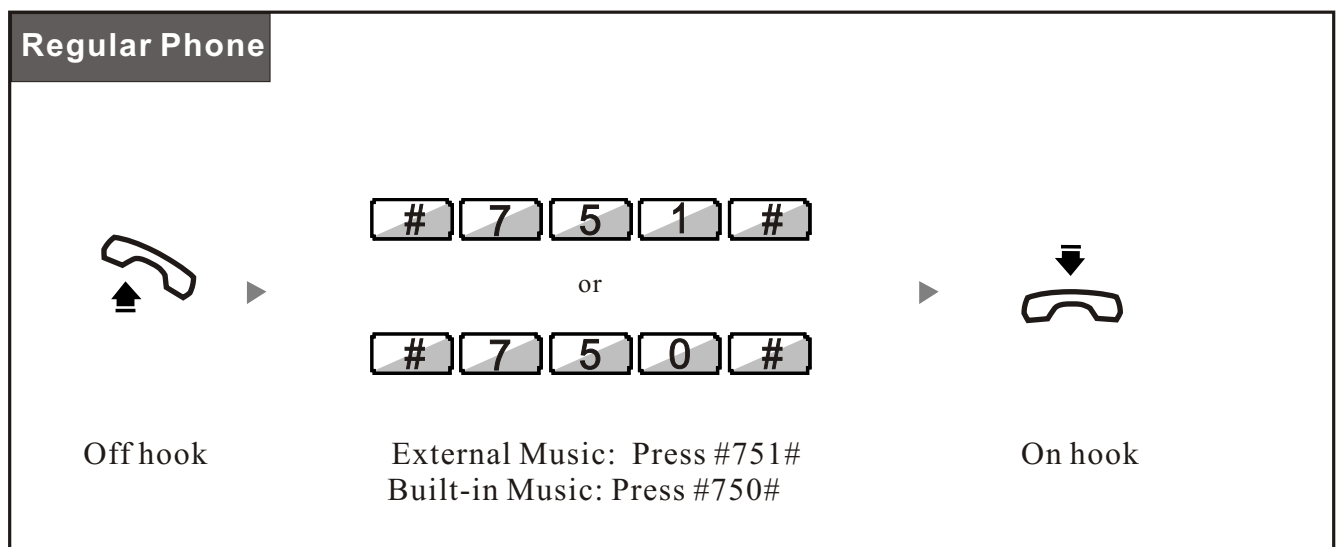
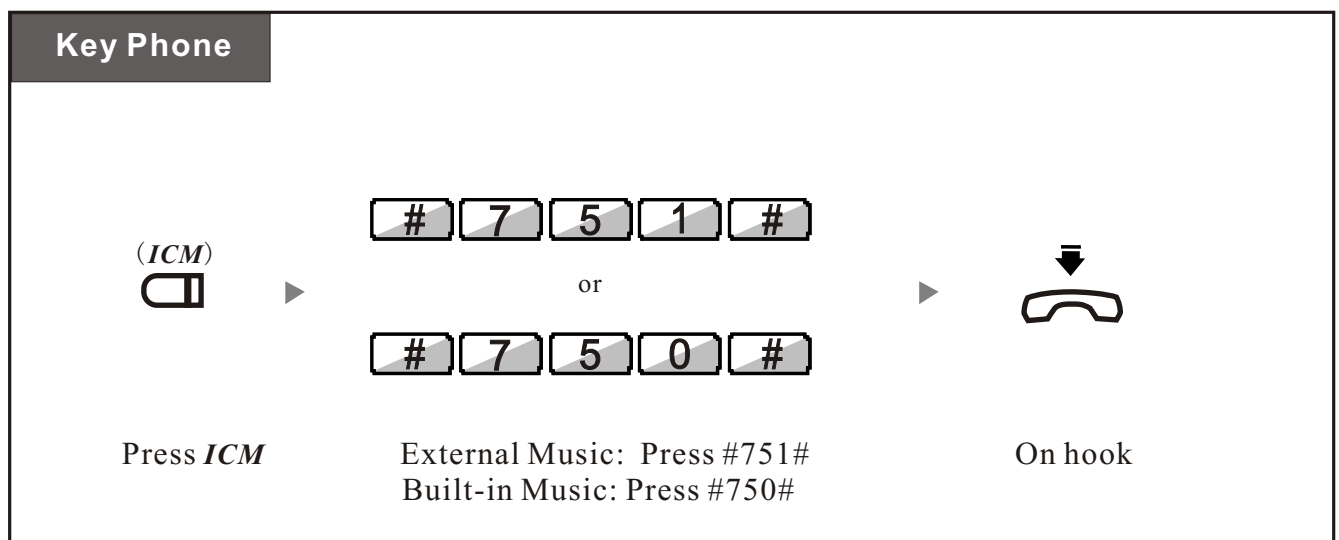
This function is useful when you do not know the extension number.  
Port number: means the physical port from 001~064 .

## 1.7 Special Operations

### 1.7.5 External /Built-in Music Switch

You can select the on-hold music from built inside the PBX or from external music source.

#### ◆◆ How to Operate



The built-in music is fixed. External music can be from MP3 player, CD player etc.

## 1.7 Special Operations

### 1.7.6 Phone Numbers Integrated

Few different telephone numbers can be integrated as only 1 number. The outside Caller need only call to only one number. This feature should support by Telecom Operators.

#### ◆◆ How to Operate

Situation: we now apply 8 different numbers 83306851, 83306852,~83306858 from Telecom Operator. But we want to only public 83306851 as 8 lines .

Suppose “\*57\* phone number #” is the code for Call Forwarding to external number, and code “#57#” is cancel the function;

How to integrated 83306851~83306857 as only one number 83306858 only ?

**Connection** : Connect 83306851~57 at outside line port 1~7, and 83306858 at line 8 port;

#### Operate at Key Telephone MC-50:

1- On-hook > press **CHK** 3 times > input “1967590” > input “01” > input 8 **TRFR** 00101  
> press **HOLD** to save ;

2- On-hook > press **CHK** 3 times > input “1967590” > input “03” >

input 32+**TRFR** + #57# >

**TRFR** +33+ **TRFR** + \*57\* >

**TRFR** +34+ **TRFR** + 83306851 > **TRFR** +35+ **TRFR** + 83306852 >

**TRFR** +36+ **TRFR** + 83306853 > **TRFR** +37+ **TRFR** + 83306854 >

**TRFR** +38+ **TRFR** + 83306855 > **TRFR** +39+ **TRFR** + 83306856 >

**TRFR** +40+ **TRFR** + 83306857 > press **HOLD** to save ;

3- On-hook > press **CHK** 3 times > input “1967590” > input “05” + “01120” **HOLD**  
> input “06” + “01200” **HOLD**

4- If not successful , can add following program:

On-hook > press **CHK** 3 times > input “1967590” > input “04” + “41401” **HOLD**



User must apply the All Call Forward feature from local Telecom Operator.








## 1.7 Special Operations

### 1.7.7 Balance Billing Deposit check & Delete

You can check balance money that someone paid ,recorded in key telephone and delete them .

#### ◆◆ To Check the Balance deposit Money at extension








**Key Phone**

 ▶     ▶ Extension no.  ▶ 

Press *ICM*      Press 7881 + extension number #      On hook

#### ◆◆ To Delete all SMDR information at all Extensions

**Key Phone**

 ▶     ▶ System password  ▶ 

Press *ICM*      Press 7848 + System Password #      On hook



The original system password is “1967590”.

---

## *Section 2*

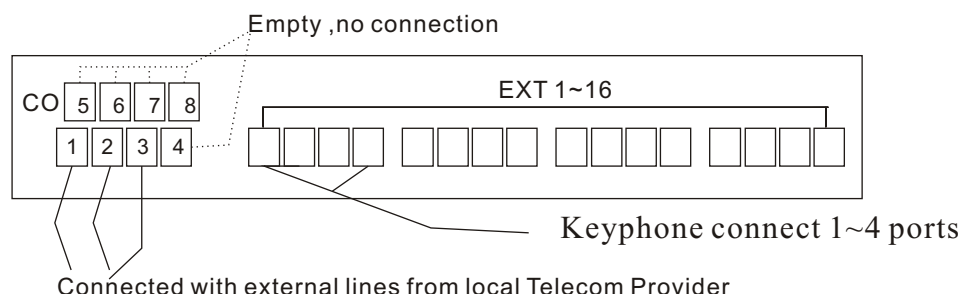
# *Program*


The chapter shows the steps how to program system by Key Telephone Set as well as the Regular Phones



## 2.1 Disconnect Idle Outside Line Port

When you have MC-824KA at 8CO,16 extensions but office number only applied 3 numbers from Telecom Carrier. Suppose these 3 numbers connect CO1,2,3 while CO 4~8 is empty and need to be closed .

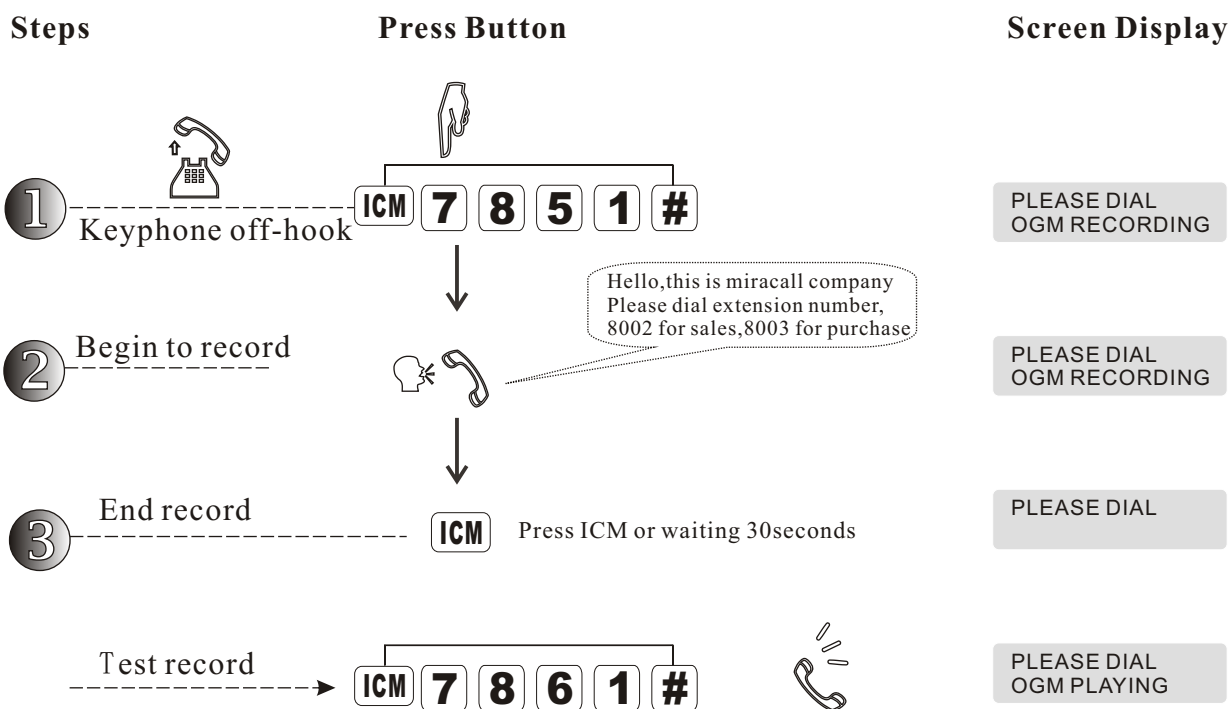
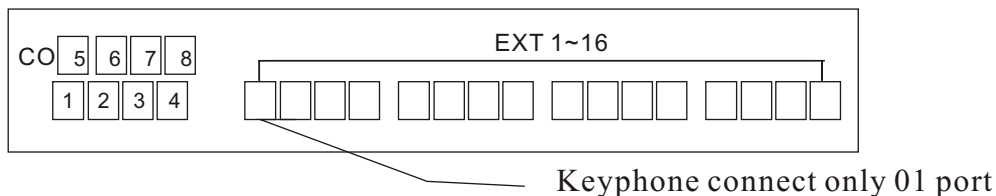


Steps	Press Button	Screen Display
1 Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
2 Password	<b>1 9 6 7 5 9 0</b> <i>du</i>	SYS PRO MODE INPUT CODE
3 Program access no.	<b>0 1</b>	LINE SETTING1 1- 22000
4 Outside Line	<b>4</b>	LINE SETTING1 4- 22000
	<b>TRFR 0 0</b>	LINE SETTING1 4- 00000
5 Save Program	<b>HOLD</b> <i>du</i>	SYS PRO MODE INPUT CODE
6 Exit	<b>CLR</b>	10/28 07:37AM 0 8001

LINE1~4 is factorily open ( display -22000), LINE5~7 is closed ( display -00000).  
 Program by Regular phone: Extension Off-hook+ #787-1967590 -01-4 \* 00000 # - on-hook

## 2.2 Record Welcome Message

The incoming caller will hear the welcome message and dial to you directly,so that no need to assign someone staying at reception to pick up and transfer call by hand .

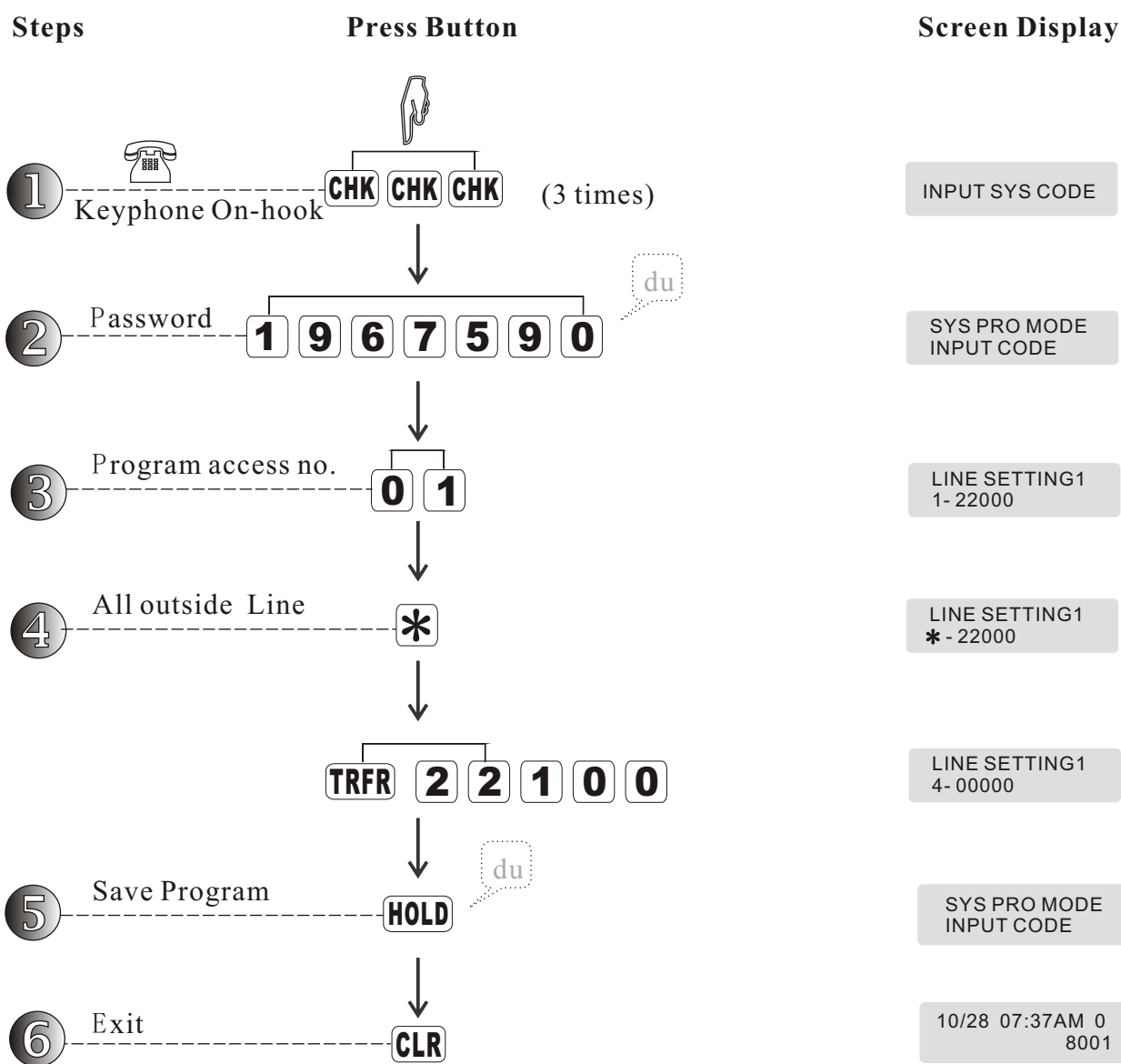
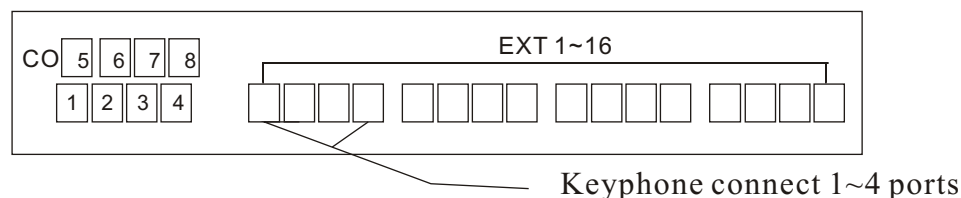


▶▶ The total duration to record this welcome message is 30seconds. You can record many time and cover the previous record automatically;

▶▶ Message Record can be like this : “Welcome to xx company, we are professional in PBX System, for sales please dial 8002, for financial please dial 8003, for purchase please dial 8006,for technical please dial 8008, for fax. Please dial 8009, for reception operator service please dial 0 ”

# Switch-on Auto-attendant Mode

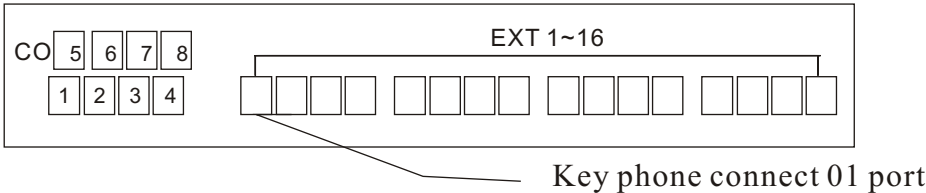
PBX from the factory is in Operator Manual Transfer Call mode, you need to switch on the welcome message by System Program to change to Auto-attendant mode.



▶▶ \* can be changed to 1~12 ,means which Outside Line enable welcome message.

# Record when-Busy Message

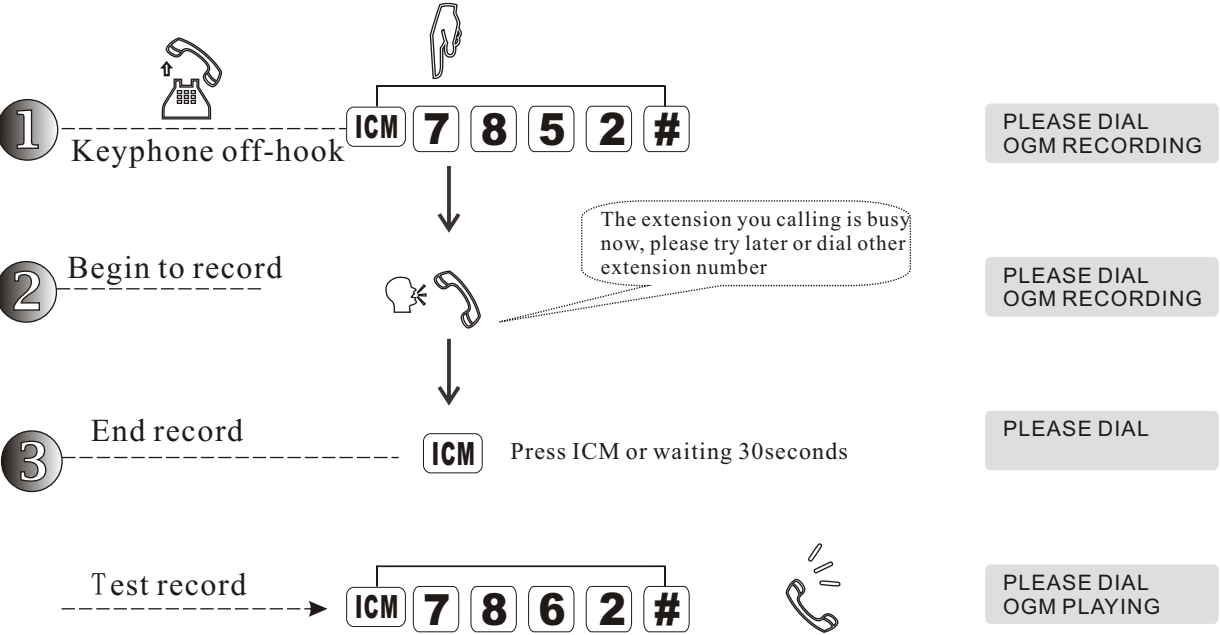
The incoming caller can not reach to the desired extension, because the desired extension is busy or occupied.



### Steps

### Press Button

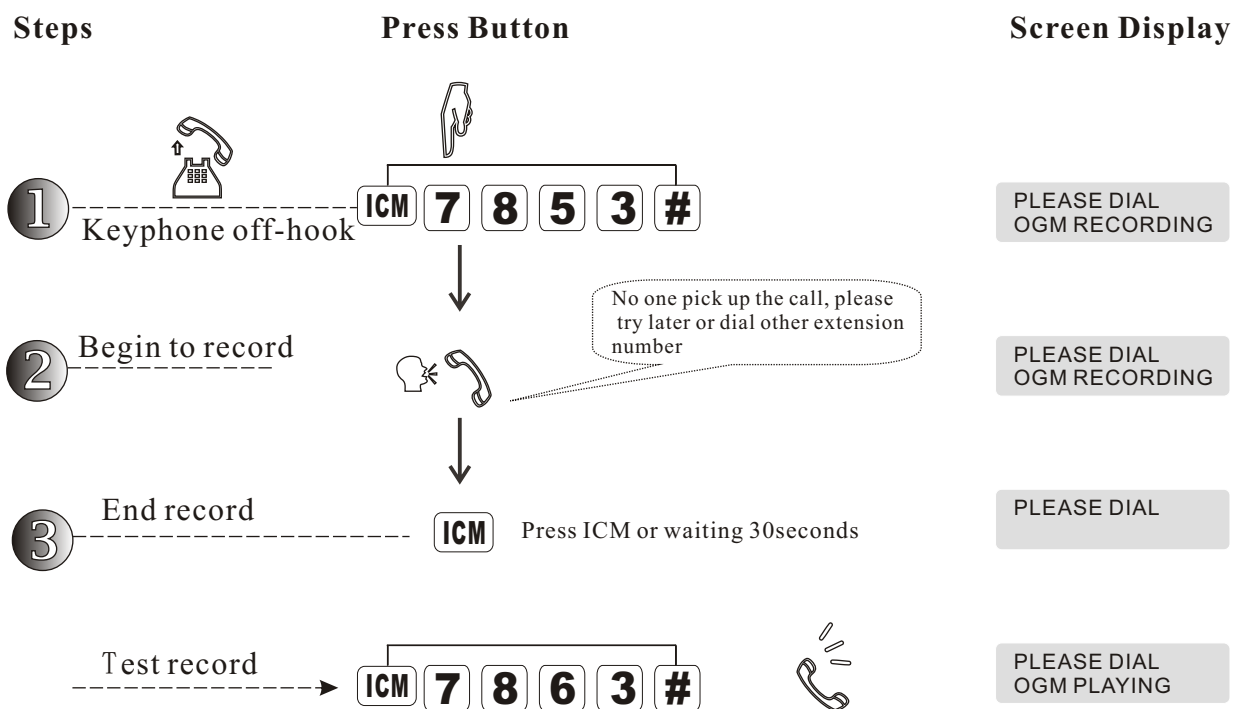
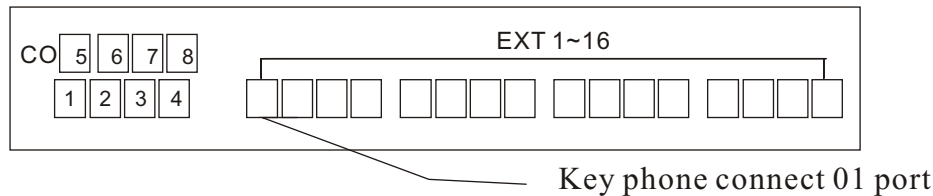
### Screen Display



- ▶▶ The total duration to record this message is 9 seconds. You can record many time any language and cover the previous record automatically;
- ▶▶ Suggest to choose a good quality phone set and record in quiet place.

# Record no-Answer Message

The incoming caller can not reach to the desired extension, because no one pickup the ringing extension to answer it. When will hear the no-answer message to remind.

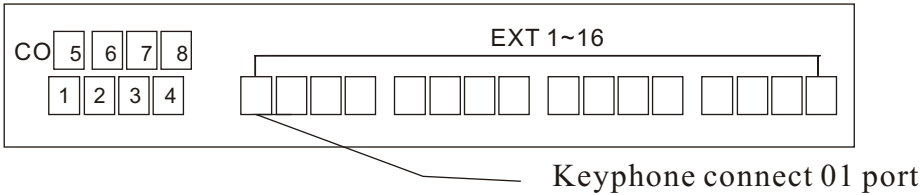


▶▶ The total duration to record this message is 9 seconds. You can record many time any language and cover the previous record automatically;

▶▶ Suggest to choose a good quality phone set and record in quiet place.

# Record dial-wrong-number Message

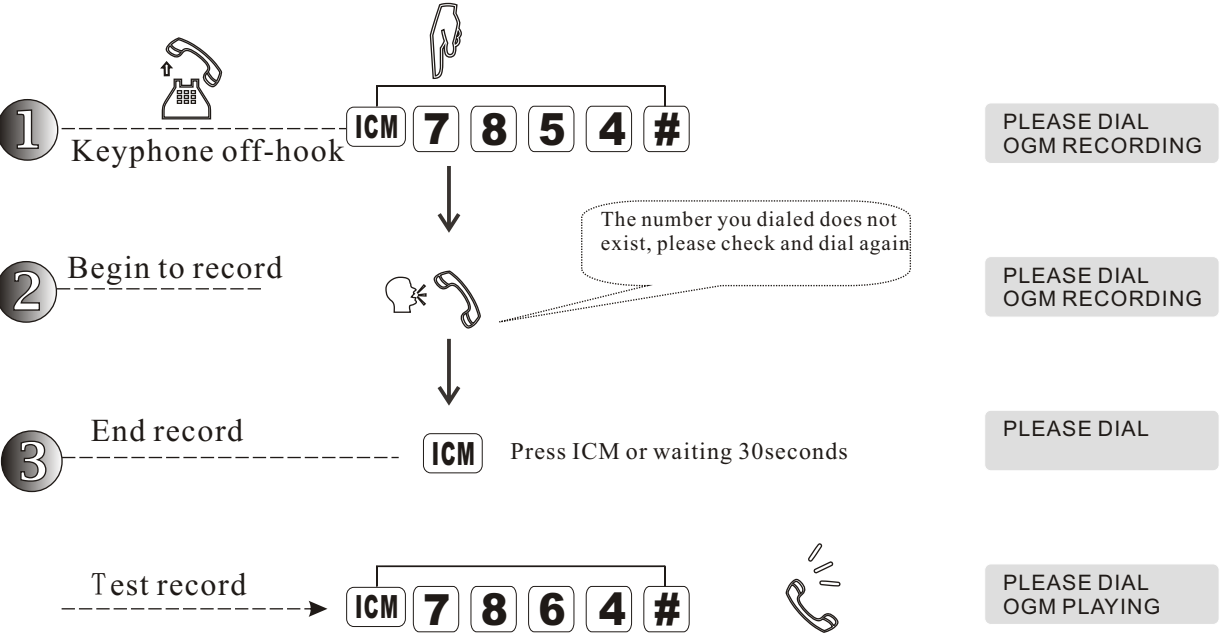
The number you dialed may be wrong or does not exist. When you will hear this message to remind.



### Steps

### Press Button

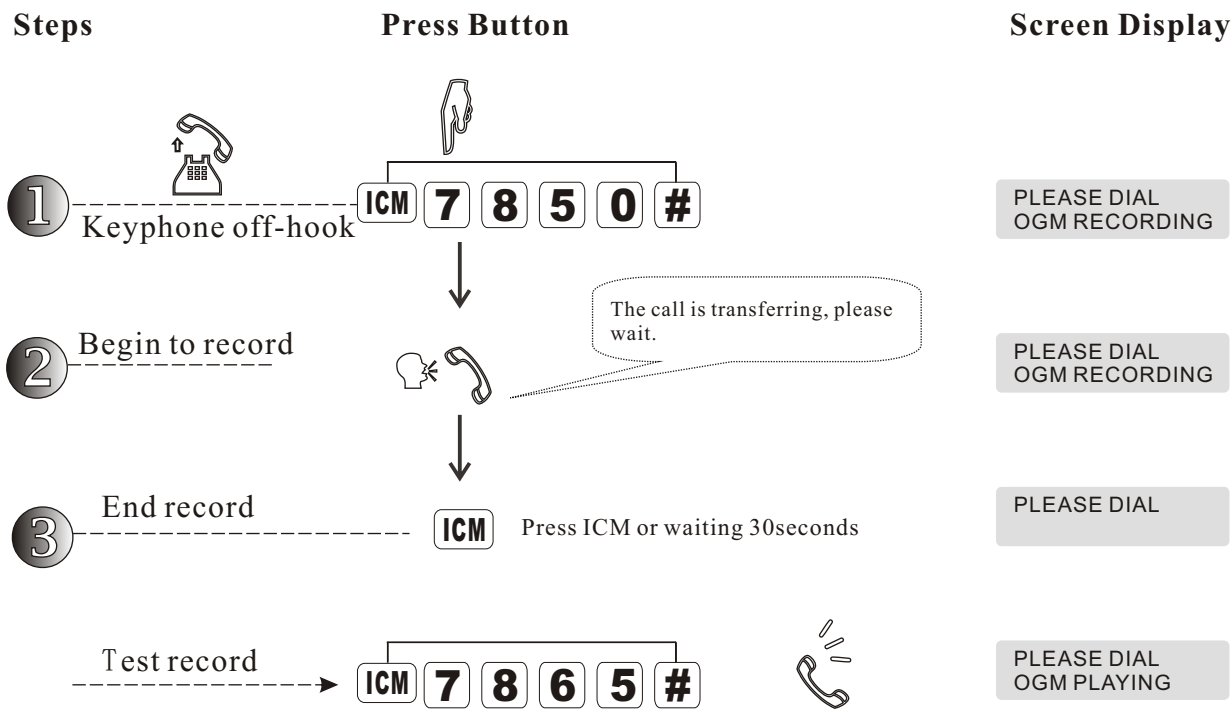
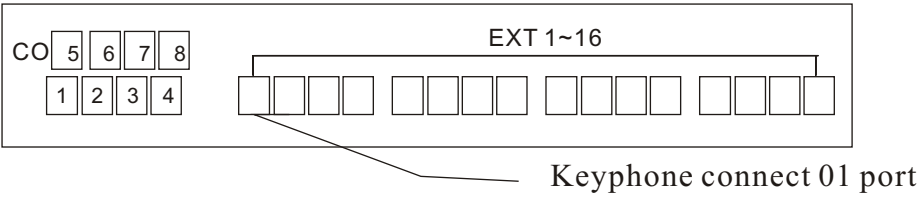
### Screen Display



- ▶▶ The total duration to record this message is 9 seconds. You can record many time any language and cover the previous record automatically;
- ▶▶ Suggest to choose a good quality phone set and record in quiet place.

# Record call-Transferring Message

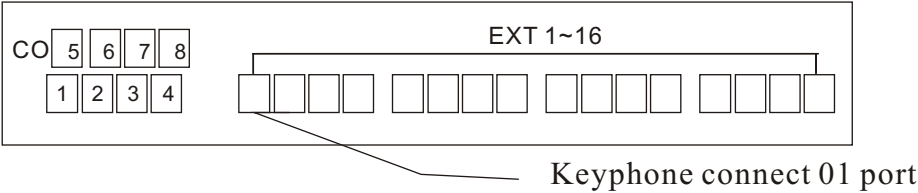
When the caller dial in and put through, during the call being transferred to desired extension, Caller will hear this message.



- ▶▶ The total duration to record this message is 9 seconds. You can record many time any language and cover the previous record automatically;
- ▶▶ Suggest to choose a good quality phone set and record in quiet place.

# Record Night Message

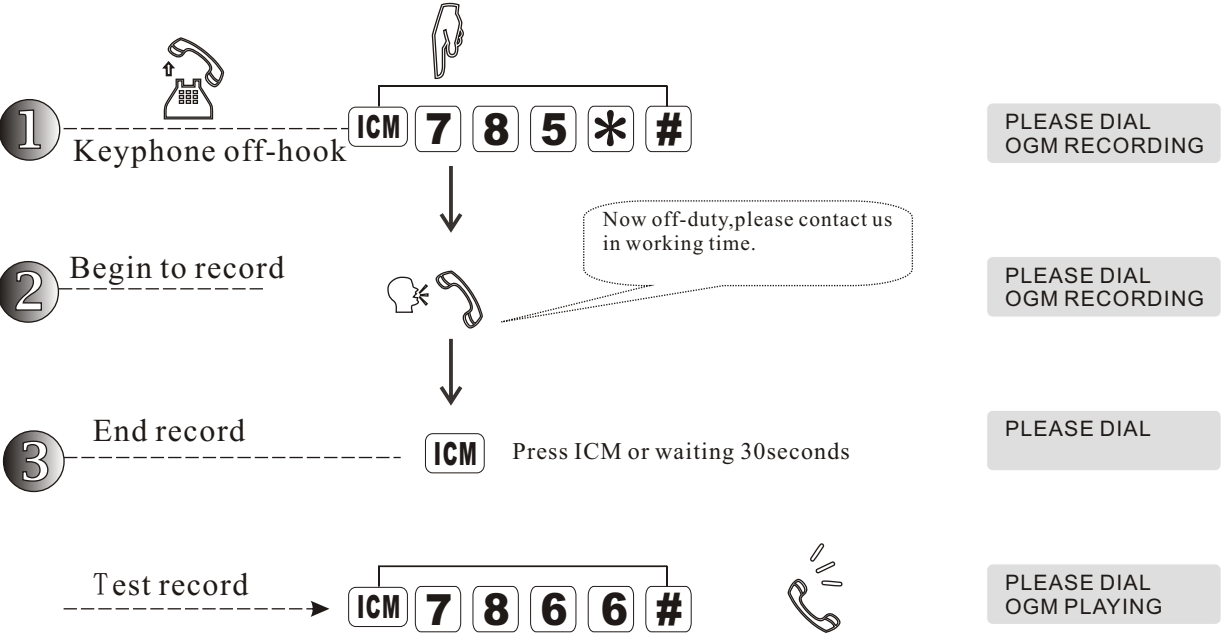
When system is in off-duty time, and no one in office, Caller will hear this night message, to be reminded that now is not working time in this company.



### Steps

### Press Button

### Screen Display

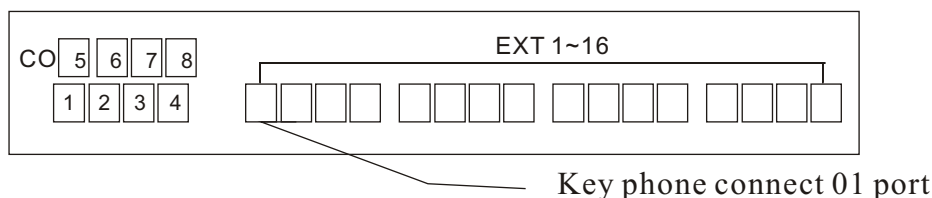


- ▶▶ The total duration to record this message is 12 seconds. You can record many time any language and cover the previous record automatically;
- ▶▶ Suggest to choose a good quality phone set and record in quiet place.





## 2.3 Outside Line Selection - Day Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines. (Day Time)



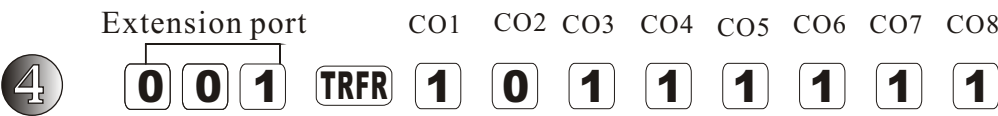
**PBX Ready:** connect key phone set at extension port 01 only;

**Example:** How to set line 2 as the exclusive line of extension 8002 (port 002)

Steps	Press Button	Screen Display
 <b>1</b> Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
<b>2</b> Password	<b>1 9 6 7 5 9 0</b>	SYS PRO MODE INPUT CODE
<b>3</b> Program access no.	<b>0 9</b>	DAY LN OUT SET 001- 11111111
<b>4</b> All Lines	<b>* * * TRFR 1 0 1 1 1 1 1 1</b> <b>TRFR</b>	LINE SETTING1 *** - 10111111  DAY LN OUT SET 001- 10111111
<b>5</b>	<b>0 0 2 TRFR 0 1 0 0 0 0 0 0</b>	DAY LN OUT SET 002-01000000
<b>6</b> Save & Exit	<b>HOLD CLR</b>	10/28 07:37AM 0 8001

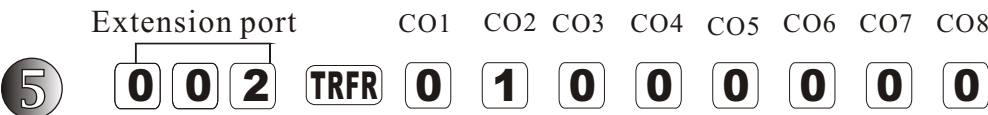
# 2.3 Outside Line Selection - Day Time

Explain : more details in step 4 and step 5



**001**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;  
**TRFR**: The button to jump mouse cursor  
CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

- 1: Means available for extension 001 to use Outside line 1;
- 0: Means unavailable for extension 001 to use Outside line 2;
- 1: Means available for extension 001 to use Outside line 3;
- 1: Means available for extension 001 to use Outside line 4;
- 1: Means available for extension 001 to use Outside line 5;
- 1: Means available for extension 001 to use Outside line 6;
- 1: Means available for extension 001 to use Outside line 7;
- 1: Means available for extension 001 to use Outside line 8;

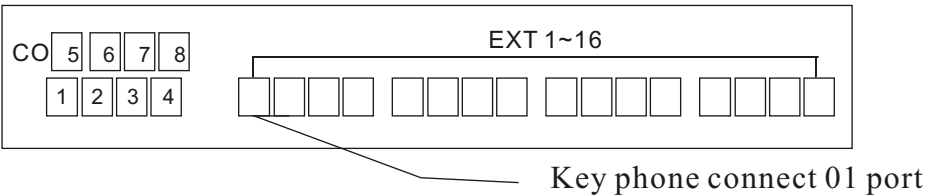


**001**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;  
**TRFR**: The button to jump mouse cursor  
CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;





- 0: Means unavailable for extension 001 to use Outside line 1;
- 1: Means available for extension 001 to use Outside line 2;
- 0: Means unavailable for extension 001 to use Outside line 3;
- 0: Means unavailable for extension 001 to use Outside line 4;
- 0: Means unavailable for extension 001 to use Outside line 5;
- 0: Means unavailable for extension 001 to use Outside line 6;
- 0: Means unavailable for extension 001 to use Outside line 7;
- 0: Means unavailable for extension 001 to use Outside line 8;

# 2.4 Outside Line Selection - Night Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines.

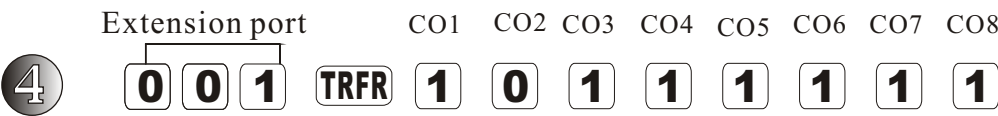


**PBX Ready:** connect key phone set at extension port 01 only;  
**Example:** How to set line 2 as the exclusive line of extension 8002 (port 002)

Steps	Press Button	Screen Display
1  Keyphone On-hook	 CHK CHK CHK (3 times)	INPUT SYS CODE
2 Password	1 9 6 7 5 9 0 	SYS PRO MODE INPUT CODE
3 Program access no.	1 0	DAY LN OUT SET 001- 11111111
4 All Lines	* * * TRFR 1 0 1 1 1 1 1 1	LINE SETTING1 *** - 10111111
	TRFR	DAY LN OUT SET 001- 10111111
5	0 0 2 TRFR 0 1 0 0 0 0 0 0	DAY LN OUT SET 002-01000000
6 Save & Exit	 HOLD CLR	10/28 07:37AM 0 8001

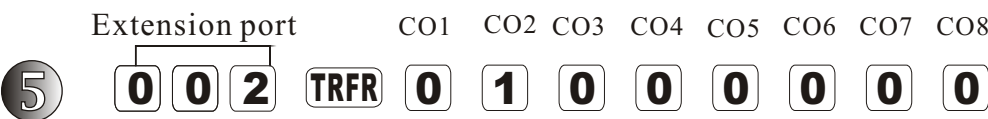
# 2.4 Outside Line Selection - Night Time

Explain : more details in step 4 and step 5



**001**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;  
**TRFR**: The button to jump mouse cursor  
CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

- 1**: Means available for extension 001 to use Outside line 1;
- 0**: Means unavailable for extension 001 to use Outside line 2;
- 1**: Means available for extension 001 to use Outside line 3;
- 1**: Means available for extension 001 to use Outside line 4;
- 1**: Means available for extension 001 to use Outside line 5;
- 1**: Means available for extension 001 to use Outside line 6;
- 1**: Means available for extension 001 to use Outside line 7;
- 1**: Means available for extension 001 to use Outside line 8;

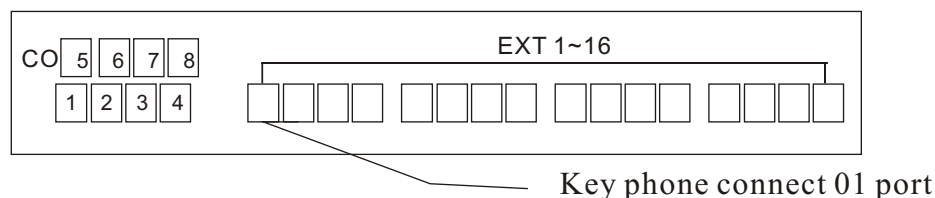


**001**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;  
**TRFR**: The button to jump mouse cursor  
CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

- 0**: Means unavailable for extension 001 to use Outside line 1;
- 1**: Means available for extension 001 to use Outside line 2;
- 0**: Means unavailable for extension 001 to use Outside line 3;
- 0**: Means unavailable for extension 001 to use Outside line 4;
- 0**: Means unavailable for extension 001 to use Outside line 5;
- 0**: Means unavailable for extension 001 to use Outside line 6;
- 0**: Means unavailable for extension 001 to use Outside line 7;
- 0**: Means unavailable for extension 001 to use Outside line 8;


## 2.5 Ringing Extension Selection - Day Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines.



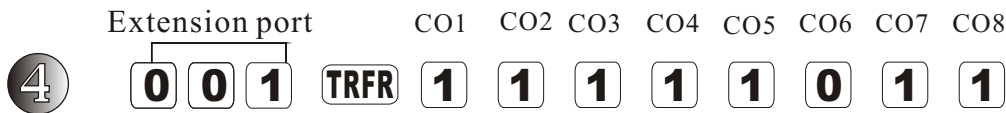
**PBX Ready:** connect key phone set at extension port 01 only;

**Example:** In Day Time ,how to set outside line no. 6 ringing to extension 002?

Steps	Press Button	Screen Display
1	 (3 times)	INPUT SYS CODE
2	Password <div>1 9 6 7 5 9 0</div>	SYS PRO MODE INPUT CODE
3	Program access no. <div>1 1</div>	DAY LN IN SET 001- 11111111
4	<div>0 0 1 TRFR 1 1 1 1 1 0 1 1</div> <div>TRFR</div>	LINE SETTING1 001 - 11111011
5	<div>0 0 2 TRFR 0 0 0 0 0 1 0 0</div>	DAY LN IN SET 002-00000100
6	Save & Exit <div>HOLD CLR</div>	10/28 07:37AM 0 8001

## 2.5 Ringing Extension Selection - Day Time

Explain : more details in step 4 and step 5



**001**: Extension port, You can select 001, 002~120, or select “\*\*\*” mean all extensions;

**TRFR**: The button to jump mouse cursor

CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

**1**: Means Outside CO Line 1 will ring to extension 001;

**1**: Means Outside CO Line 2 will ring to extension 001;

**1**: Means Outside CO Line 3 will ring to extension 001;

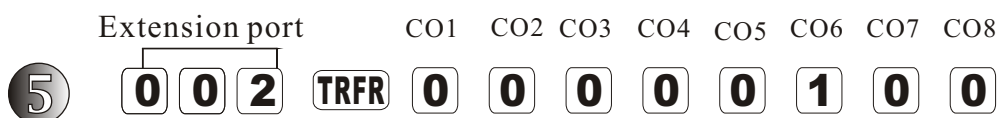
**1**: Means Outside CO Line 4 will ring to extension 001;

**1**: Means Outside CO Line 5 will ring to extension 001;

**0**: Means Outside CO Line 6 Do Not ring to extension 001;

**1**: Means Outside CO Line 7 will ring to extension 001;

**1**: Means Outside CO Line 8 will ring to extension 001;



**002**: Extension port, You can select 001, 002~120, or select “\*\*\*” mean all extensions;

**TRFR**: The button to jump mouse cursor

CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

**0**: Means Outside CO Line 1 will Not ring to extension 002;

**0**: Means Outside CO Line 2 will Not ring to extension 002;

**0**: Means Outside CO Line 3 will Not ring to extension 002;

**0**: Means Outside CO Line 4 will Not ring to extension 002;

**0**: Means Outside CO Line 5 will Not ring to extension 002;

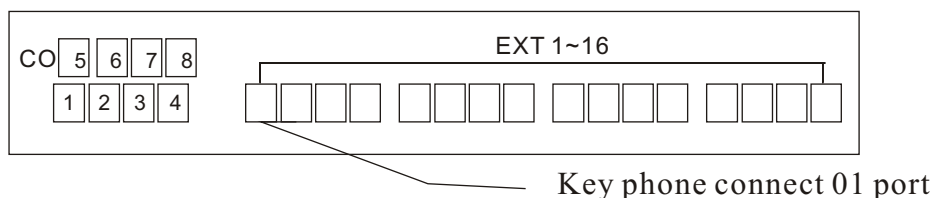
**1**: Means Outside CO Line 6 will ring to extension 002;

**0**: Means Outside CO Line 7 will Not ring to extension 002;

**0**: Means Outside CO Line 8 will Not ring to extension 002;

## 2.6 Ringing Extension Selection -Night Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines (Night Time).



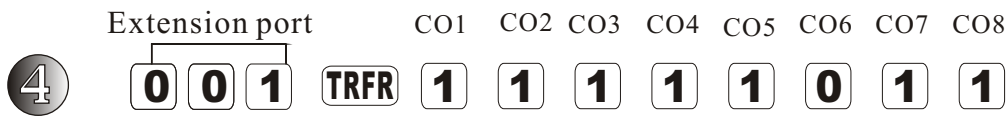
**PBX Ready:** connect key phone set at extension port 01 only;

**Example:** In Night Time ,how to set outside line no. 6 ringing to extension 002?

Steps	Press Button	Screen Display
<b>1</b> Keyphone On-hook	<b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
<b>2</b> Password	<b>1 9 6 7 5 9 0</b> <sup>du</sup>	SYS PRO MODE INPUT CODE
<b>3</b> Program access no.	<b>1 2</b>	NGT LN IN SET 001- 11111111
<b>4</b>	<b>0 0 1 TRFR 1 1 1 1 1 0 1 1</b>	LINE SETTING1 001 - 11111011
	<b>TRFR</b>	NGT LN IN SET 001- 10111111
<b>5</b>	<b>0 0 2 TRFR 0 0 0 0 0 1 0 0</b>	NGT LN IN SET 002-00000100
<b>6</b> Save & Exit	<sup>du</sup> <b>HOLD CLR</b>	10/28 07:37AM 0 8001

## 2.6 Ringing Extension Selection -Night Time

Explain : more details in step 4 and step 5



**001**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;

**TRFR**: The button to jump mouse cursor

CO1~8: Outside Line, change to 0 means extension 001 can not use this line;  
change to 1 means extension 001 can use this line;

**1**: Means Outside CO Line 1 will ring to extension 001;

**1**: Means Outside CO Line 2 will ring to extension 001;

**1**: Means Outside CO Line 3 will ring to extension 001;

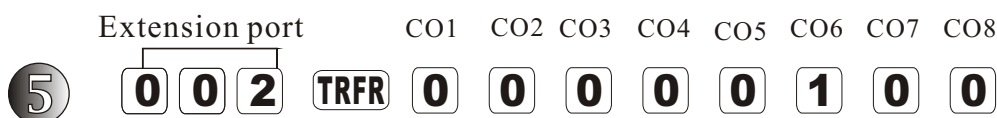
**1**: Means Outside CO Line 4 will ring to extension 001;

**1**: Means Outside CO Line 5 will ring to extension 001;

**0**: Means Outside CO Line 6 Do Not ring to extension 001;

**1**: Means Outside CO Line 7 will ring to extension 001;

**1**: Means Outside CO Line 8 will ring to extension 001;



**002**: Extension port, You can select 001,002~120 , or select “\*\*\*\*” mean all extensions;

**TRFR**: The button to jump mouse cursor

CO1~8: Outside Line, change to 0 means means CO Line do not ring to extension 002;  
change to 1 means CO Line will ring to extension 002;

**0**: Means Outside CO Line 1 will Not ring to extension 002;

**0**: Means Outside CO Line 2 will Not ring to extension 002;

**0**: Means Outside CO Line 3 will Not ring to extension 002;

**0**: Means Outside CO Line 4 will Not ring to extension 002;

**0**: Means Outside CO Line 5 will Not ring to extension 002;

**1**: Means Outside CO Line 6 will ring to extension 002;

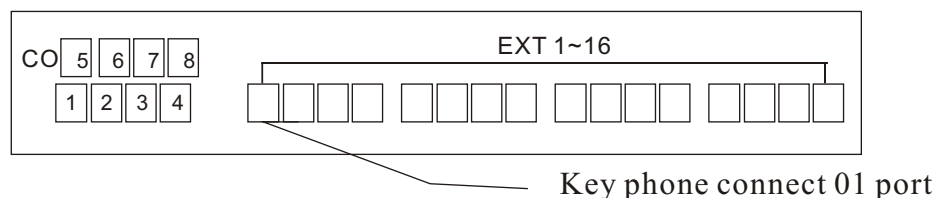
**0**: Means Outside CO Line 7 will Not ring to extension 002;

**0**: Means Outside CO Line 8 will Not ring to extension 002;




## 2.7 Modify Extension Number

You can change current extension numbers 8001~8064 to others like 18,209,8801 etc.  
Only allow prefixed numbers starting with “1” “2” “8”, and max. 2~4 digit-number.



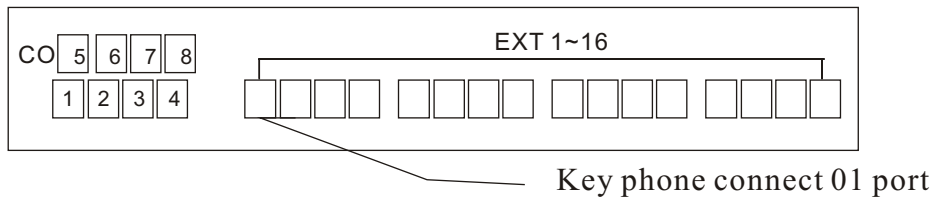
**PBX Ready:** connect key phone set at extension port 01 only;

**Example:** I want to modify 8001 to 11, 8002 to 202, 8003 to 8893, how to program?

Steps	Press Button	Screen Display
1	 Keyphone On-hook <b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
2	Password <b>1 9 6 7 5 9 0</b>	SYS PRO MODE INPUT CODE
3	Program access no. <b>2 9</b>	PORT EXT NUMBER 001- 8001
4	<b>* * 1 TRFR 1 1 TRFR 0 0 2</b>	PORT EXT NUMBER 002 -
5	<b>TRFR 2 0 2 TRFR 0 0 3 TRFR</b>	PORT EXT NUMBER 003 -
6	<b>8 8 9 3</b> Save & Exit <b>HOLD CLR</b>	PORT EXT NUMBER 003 - 8893  10/28 07:37AM 0 8001

## 2.8 Off-Hook Route Selection

Customer pick up handset and hear external line dial tone, can dial external numbers directly without dial Route code “9”. (Factory is off-hook intercom route)



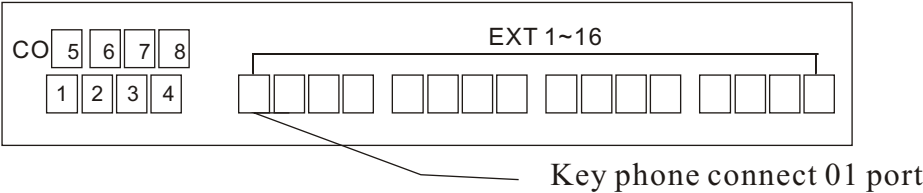
**PBX Ready:** connect key phone set at extension port 01 only;

**Example:** I want to set extension 001 & 002 in direct dial out mode.


Steps	Press Button	Screen Display
<b>1</b> Keyphone On-hook	<b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
<b>2</b> Password	<b>1 9 6 7 5 9 0</b> <i>du</i>	SYS PRO MODE INPUT CODE
<b>3</b> Program access no.	<b>2 3</b>	D 001- 02100
<b>4</b>	<b>0 0 1 TRFR 0 2 1 1 0</b>	PORT EXT NUMBER 001 -02110
<b>5</b>	<b>TRFR 0 0 2 TRFR 0 2 1 1 0</b>	PORT EXT NUMBER 002 -02110
<b>6</b> Save & Exit	<i>du</i> <b>HOLD CLR</b>	10/28 07:37AM 0 8001

# 2.9 Toll Restriction

You can control the class of authority to make long-distance call .



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
1 Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
2 Password	<b>1 9 6 7 5 9 0</b> <small>du</small>	SYS PRO MODE INPUT CODE
3 Program access no.	<b>1 4</b>	SERVICE CLASS 001- 11
4	<b>0 0 1 TRFR 1 1</b>	SERVICE CLASS 001 -02110

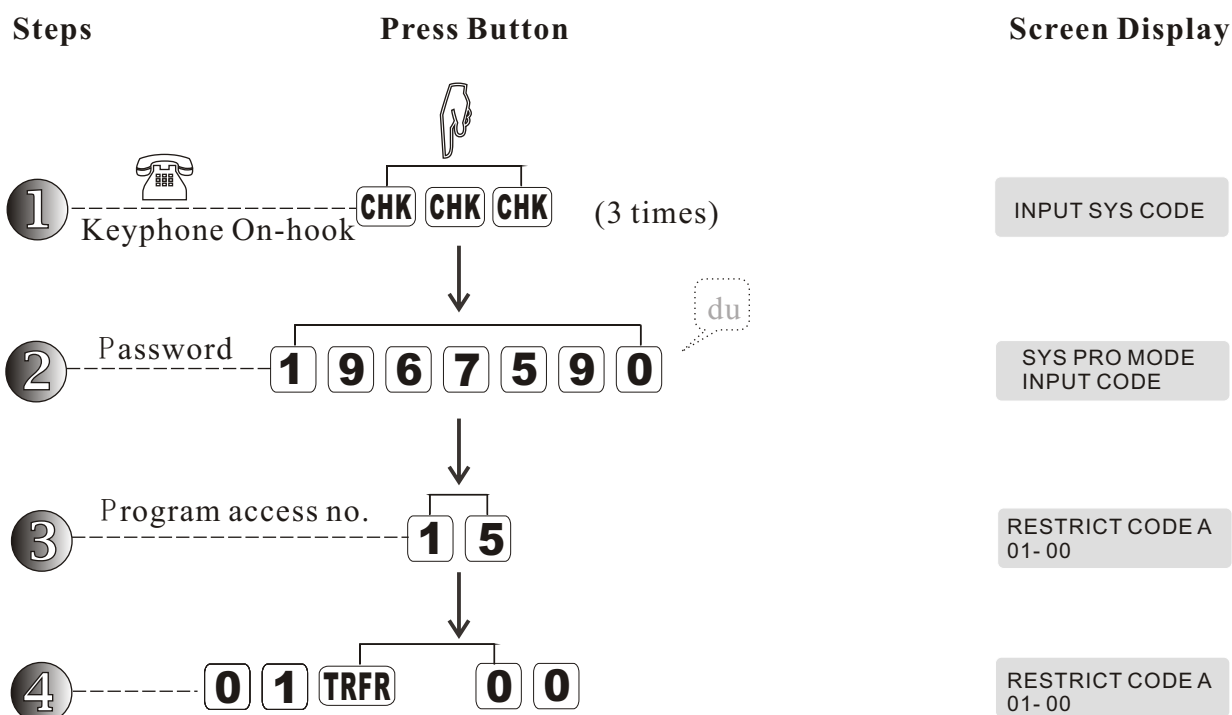
- 001:** can input 001~064 ,means which extension number for restriction;
- 1:** can input 1~6 ,means 1~6 Toll class in Day Time;
- 1:** can input 1~6 ,means 1~6 Toll class in Night Time;

## 2.9 Toll Restriction

### List of Toll Restriction Class:

- 1- Class 1 : No restriction, can dial any number ,even international;
- 2- Class 2: Restrict the codes which stated in Restrict Code A (refer to Page);
- 3- Class 3: Restrict the codes which stated in Restrict Code B (refer to Page),but enable the numbers programmed in Unrest Code C (refer to Page ).
- 4- Class 4: Restrict the codes which stated in Restrict Code A & B (refer to Page) , do not enable the numbers in Unrest Code C (refer to Page );
- 5- Class 5: Can only dial the numbers in Comunres Code D (refer to Page);
- 6- Class 6: Only allow intercom calls;

### HOW TO SET RESTRICT CODE A:

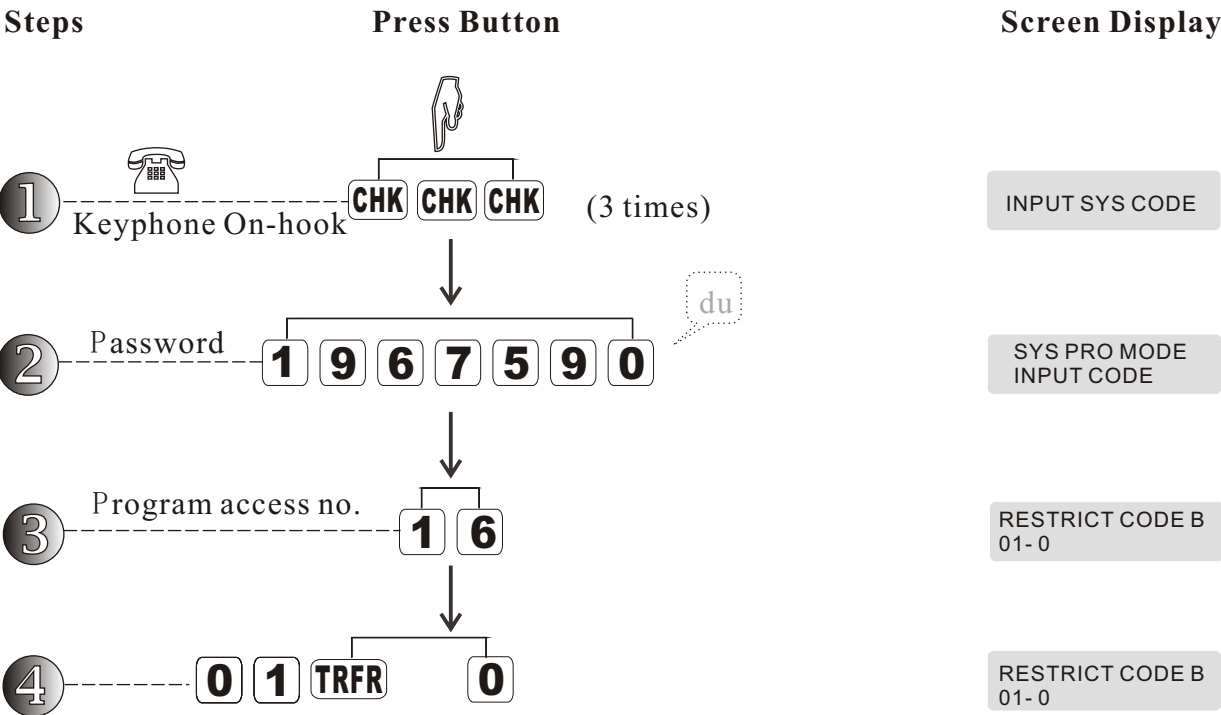


**01**: Group, can input 01~04 ,means you can set 1-4 group different numbers in Restrict Code A;

**00**: The numbers to be restricted in Restrict Code A, max. 8-digit;  
Factory setting : 01-00; 02-168; 03-968; 04-969.

# 2.9 Toll Restriction

## HOW TO SET RESTRICT CODE B:

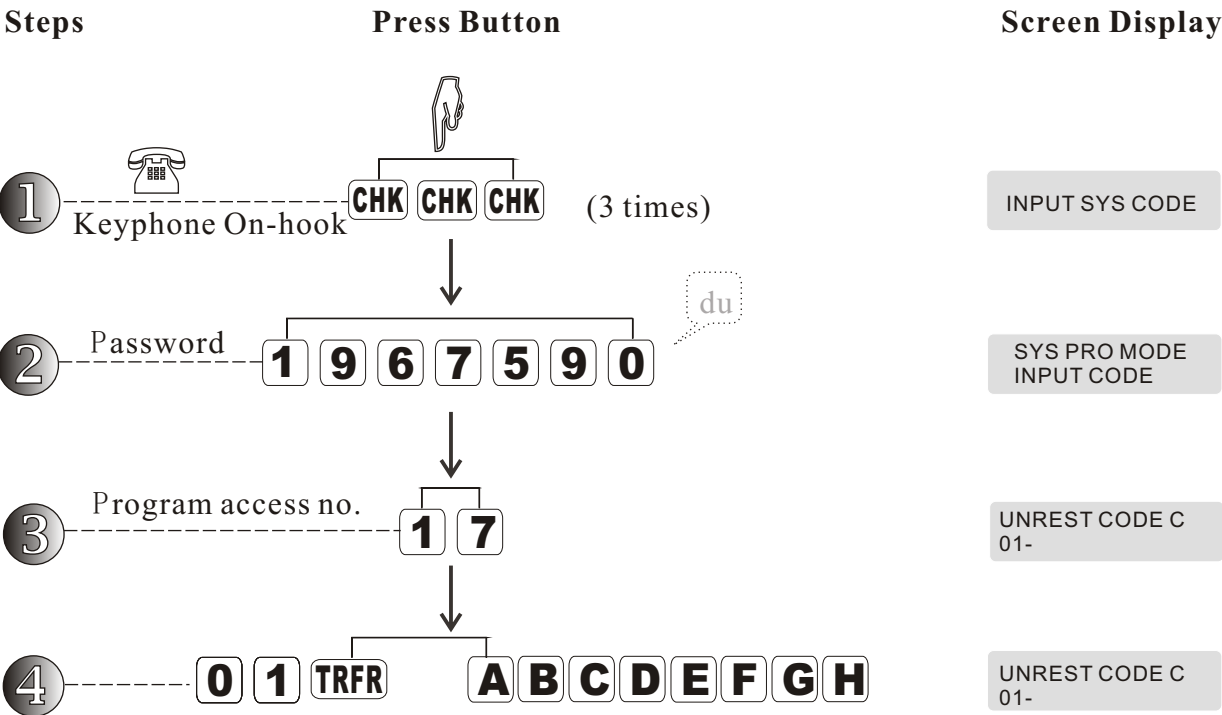


**01**: Group, can input 01~20 ,means you can set 1-20 group different numbers in Restrict Code B;

**0**: The numbers to be restricted in Restrict Code B, max. 8-digit;  
Factory setting : 01-0; 02-168; 03-968; 04-969.

# 2.9 Toll Restriction

## HOW TO SET UNREST CODE C:

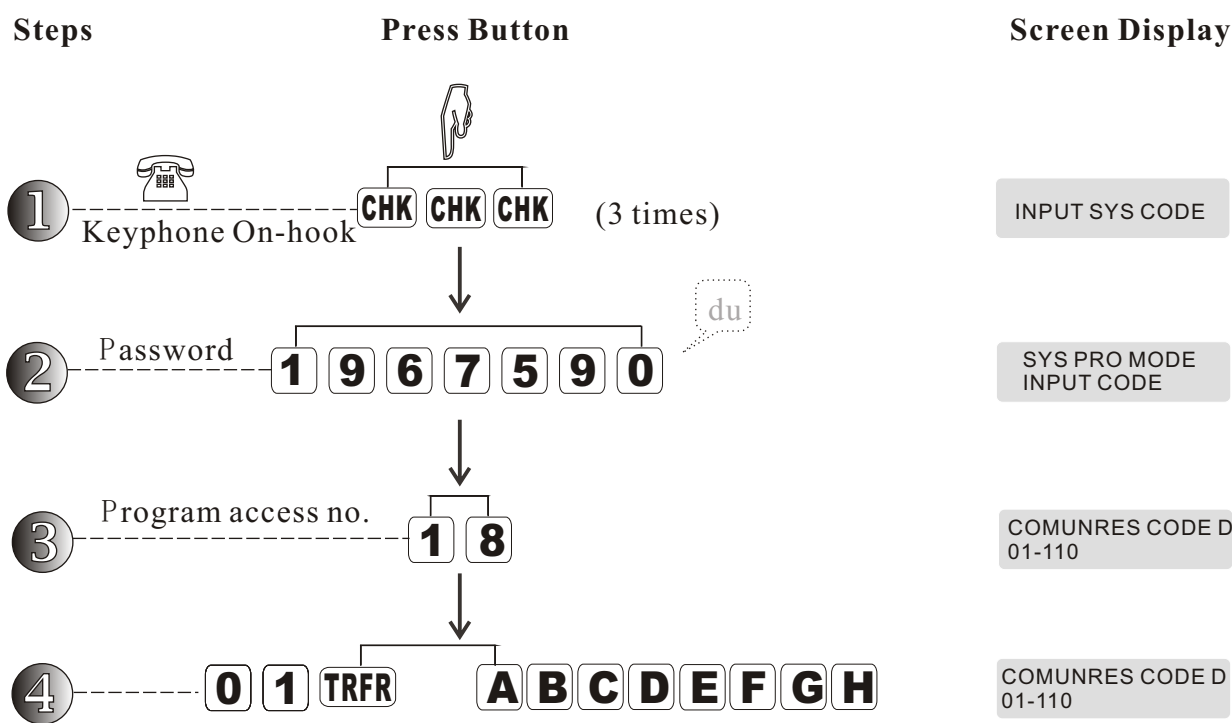


**01**: Group, can input 01~12 ,means you can set 1-12 group different numbers in Unrest Code C;

**ABCEDFGH**: The numbers to be restricted in Unrest Code C, max. 8-digit;  
Factory setting : no setting;

# 2.9 Toll Restriction

## COMUNRES CODE D SETTING (Emergency Code):

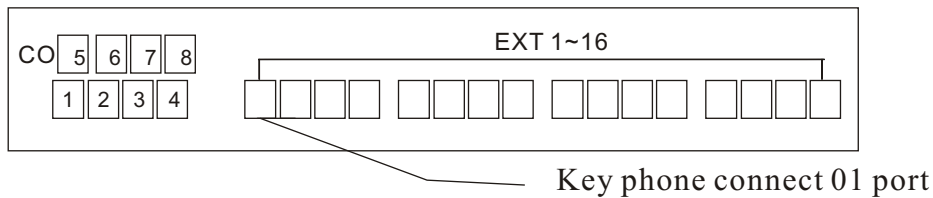


**01**: Group, can input 01~04 ,means you can set 1-4 group different numbers in Comunres Code D;



**ABCDEFGH**: The numbers to be restricted in Code D, max. 8-digit;  
Factory setting : 01-110; 02-112; 03-119, This is to set emergency numbers;

## 2.10 Do-Not-dial Switch to Operator

The incoming Caller hear the welcome message in Auto-attendant mode, but do not dial any number, the line will be cut off in factory setting, how to set Do Not Dial then switch to Operator phone automatically?



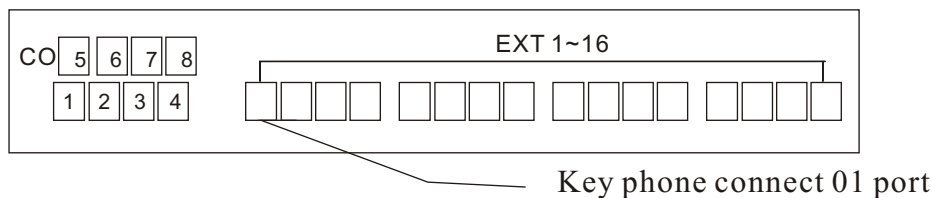
**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
<b>1</b>  Keyphone On-hook	 <b>CHK</b> <b>CHK</b> <b>CHK</b> (3 times)	<div>INPUT SYS CODE</div>
<b>2</b> Password	<b>1</b> <b>9</b> <b>6</b> <b>7</b> <b>5</b> <b>9</b> <b>0</b> <small>du</small>	<div>SYS PRO MODE INPUT CODE</div>
<b>3</b> Program access no.	<b>0</b> <b>5</b>	<div>SYSTEM SETTING2 -01000</div>
<b>4</b>	<b>1</b> <b>1</b> <b>0</b> <b>0</b> <b>0</b>	<div>SYSTEM SETTING2 -11000</div>
<b>5</b> Save & Exit <small>du</small>	<b>HOLD</b> <b>CLR</b>	<div>10/28 07:37AM 0 8001</div>





## 2.11 Enable MC-3 DSS Console

When connect DSS Console to key phone set MC-3, the DSS should be enabled before use.

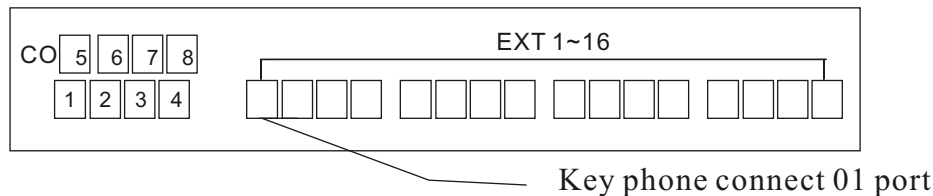


**PBX Ready:** connect key phone set at extension port 01 only;



Steps	Press Button	Screen Display
<b>1</b>  Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	INPUT SYS CODE
<b>2</b> Password	<b>1 9 6 7 5 9 0</b> <span style="border: 1px dashed gray; border-radius: 50%; padding: 2px;">du</span>	SYS PRO MODE INPUT CODE
<b>3</b> Program access no.	<b>0 6</b>	SYSTEM SETTING3 -00200
<b>4</b>	<b>0 0 2 0 1</b>	SYSTEM SETTING3 -00201
<b>5</b> Save & Exit	<span style="border: 1px dashed gray; border-radius: 50%; padding: 2px;">du</span> <b>HOLD CLR</b>	10/28 07:37AM 0 8001

## 2.12 Walking Account PIN Setting

Your staffs in company can use assigned password account to make long-distance call in other extensions, while the cost count on password account only, no related with the extensions.



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
<b>1</b>  Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	<div>INPUT SYS CODE</div>
<b>2</b> Password	<b>1 9 6 7 5 9 0</b> <small>du</small>	<div>SYS PRO MODE INPUT CODE</div>
<b>3</b> Program access no.	<b>2 0</b>	<div>OVER CLASS CODE 001- -1 -1</div>
<b>4</b>	<b>TRFR A B C D E F TRFR G TRFR H</b>	<div>OVER CLASS CODE 001- ABCDEF -G -H</div>
<b>5</b> Save & Exit <small>du</small>	<b>HOLD CLR</b>	<div>10/28 07:37AM 0 8001</div>

**001**- The extension number, you can press 001~064;

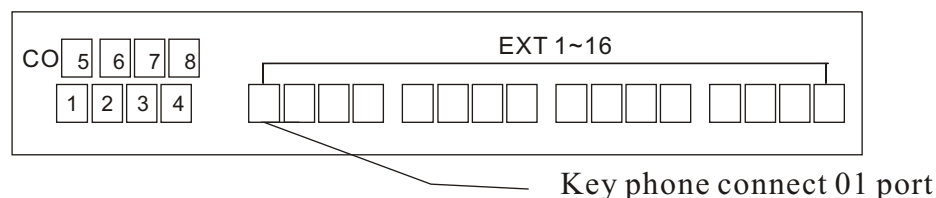
**ABCDEF**: 6-digit different password account;

**G**: Toll restriction class, can be from Class 1~ Class 6;

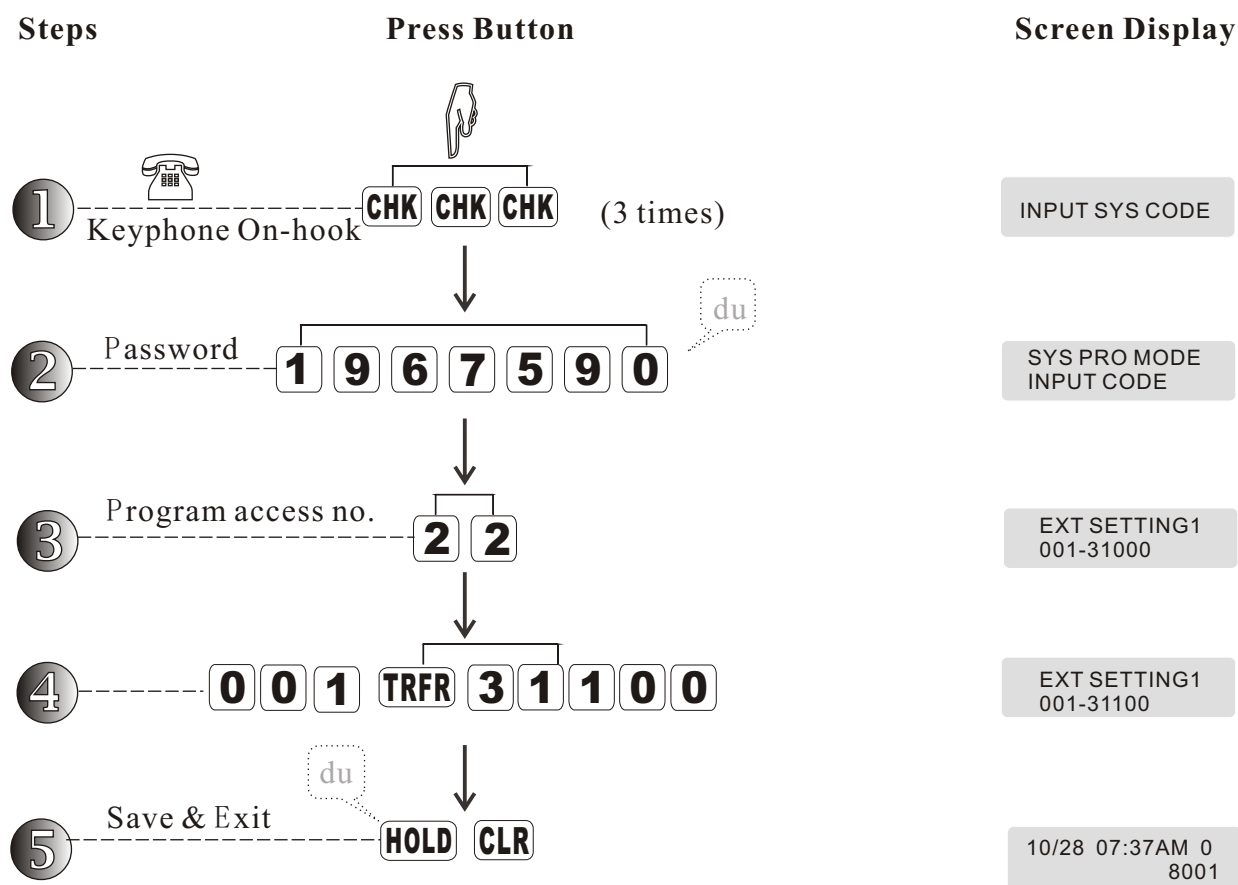
**H**: Can input 1~4, means can use which CO Line to make call outside;

## 2.13 3-minute Conversation Alarm

System will send alarm tone to extension after talking 3 minutes, then in additional 1.5 minutes later, the line will be cut off.



**PBX Ready:** connect key phone set at extension port 01 only;



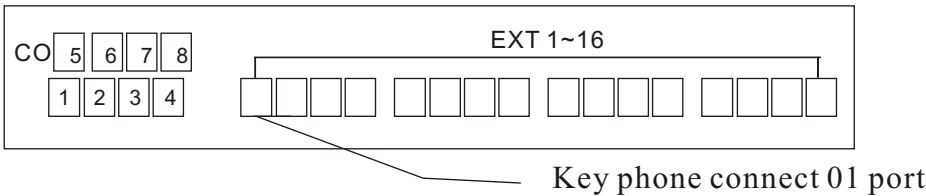
**001**- The selectable extension number, you can press 001~064 to set which extension;

**31100**: input 31100 means the selected extension will hear alarm tone;



**31000**: input 31000 means the selected extension will Not hear alarm tone, factory set;

# 2.14 Conversation Override & Cut-off

To enable which extension can override an existing conversation and cut off it.



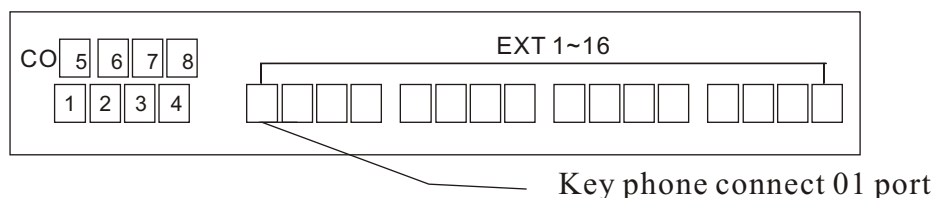
**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
1  Keyphone On-hook	 CHK CHK CHK (3 times)	INPUT SYS CODE
2 Password	1 9 6 7 5 9 0 <i>du</i>	SYS PRO MODE INPUT CODE
3 Program access no.	2 2	EXT SETTING1 001-31000
4	0 0 1 TRFR 3 1 0 1 0	EXT SETTING1 001-31010
5 Save & Exit <i>du</i>	HOLD CLR	10/28 07:37AM 0 8001

- 001**- The selectable extension number, you can press 001~064 to set which extension;
- 31010**: 31100 means the selected extension can override and cut off the conversation;
- 31000**: input 31000 means the selected extension can not override or cut-off;

## 2.15 Intercom Call Restriction

To restrict which extension can not call intercom, only allow to dial to Operator phone .



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
 1 Keyphone On-hook	 CHK CHK CHK (3 times)	INPUT SYS CODE
2 Password	1 9 6 7 5 9 0 	SYS PRO MODE INPUT CODE
3 Program access no.	2 3	EXT SETTING 2 001-02100
4	0 0 1 TRFR 0 2 1 0 1	EXT SETTING1 001-02101
5 Save & Exit	 HOLD CLR	10/28 07:37AM 0 8001

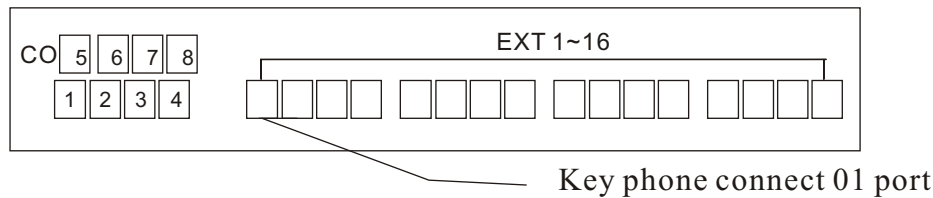
**001**- The selectable extension number, you can press 001~064 to set which extension;

**02101**: means the selected extension can not dial other extensions except operator;



**02100**: input 02100 means the selected extension do not restrict intercom call;

## 2.16 Call Pickup Group

To separate all extensions to different groups (max. 4 group). Can only pick up the ringing extensions within same group.



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
 <b>1</b> Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	<div>INPUT SYS CODE</div>
<b>2</b> Password	<b>1 9 6 7 5 9 0</b>	<div>SYS PRO MODE INPUT CODE</div>
<b>3</b> Program access no.	<b>2 4</b>	<div>PICKUP GROUP 1 -001 -1</div>
<b>4</b>	<b>1 TRFR 0 0 1 TRFR 1</b>	<div>PICKUP GROUP X -ABC -Y</div>
<b>5</b> Save & Exit	<b>HOLD CLR</b>	<div>10/28 07:37AM 0 8001</div>

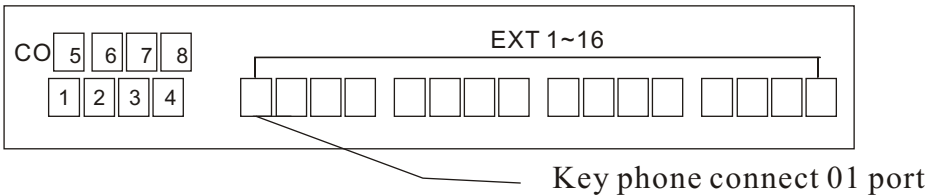
**1-** The selectable pickup group, you can press 01-04 ,max. 4 groups;

**001:** The selectable extensions001~064 within or outside the group;

**1:** can be “1” means within group or “0” means out of the group;

# 2.17 Manger-secretary Call Group

All incoming call to Manager will firstly ring to secretary extension. After consulting, secretary can decide whether to transfer the call to Manager or not.



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
1 Keyphone On-hook	 CHK CHK CHK (3 times)	INPUT SYS CODE
2 Password	1 9 6 7 5 9 0	SYS PRO MODE INPUT CODE
3 Program access no.	2 5	EXEC/SEC PAIR 1 - -
4	1 TRFR 0 0 1 TRFR 0 0 2	EXEC/SEC PAIR X -ABC -abc
5 Save & Exit	 HOLD CLR	10/28 07:37AM 0 8001

1 - Manager/secretary Call group, you can press 01-04 ,max. 4 groups;

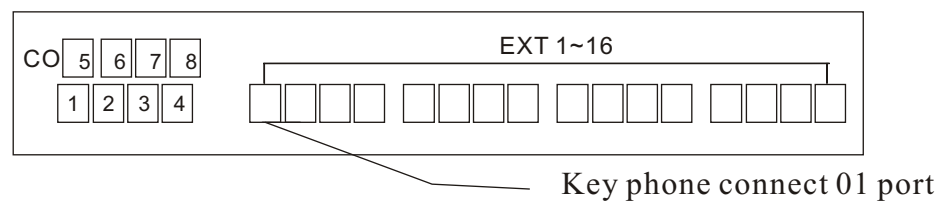
001: The selectable extensions001~064 for Manager;

002: The selectable extensions001~064 for Secretary;





After setting, Manager extension should press DND key;

# 2.18 Modify System Program Password

All incoming call to Manager will firstly ring to secretary extension. After consulting, secretary can decide whether to transfer the call to Manager or not.



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
1  Keyphone On-hook	 CHK CHK CHK (3 times)	INPUT SYS CODE
2 Password	1 9 6 7 5 9 0 	SYS PRO MODE INPUT CODE
3 Program access no.	2 6	SYS SECRET CODE -1967590-
4	1 9 6 7 5 9 0	SYS SECRET CODE -abcdef-
5 Save & Exit 	HOLD CLR	10/28 07:37AM 0 8001

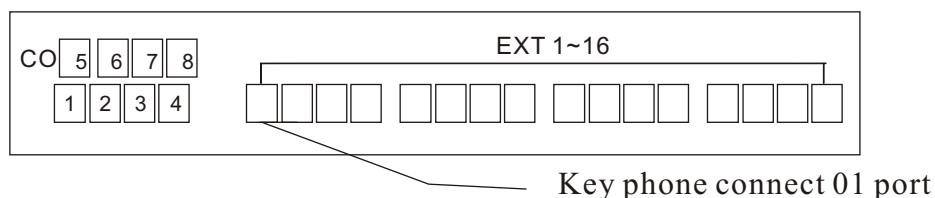
**1967590-** you can input any 7-digit numbers here as new password;

Please keep new password secretly; If lose password,you can use “2167715” to enter into system and clear previous password.

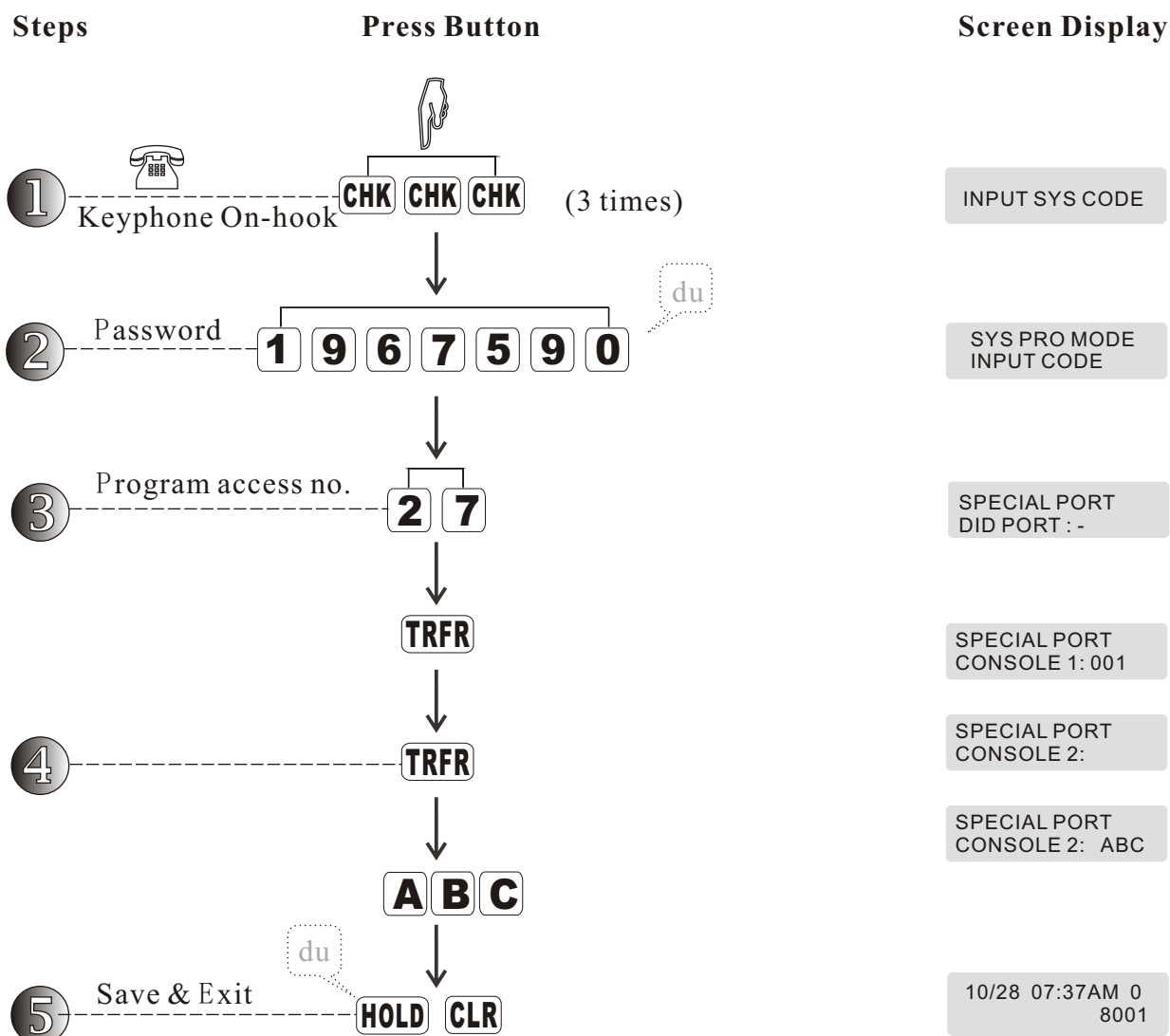


## 2.19 Set more Operators

You can set more operators for incoming calls in case it is busy .



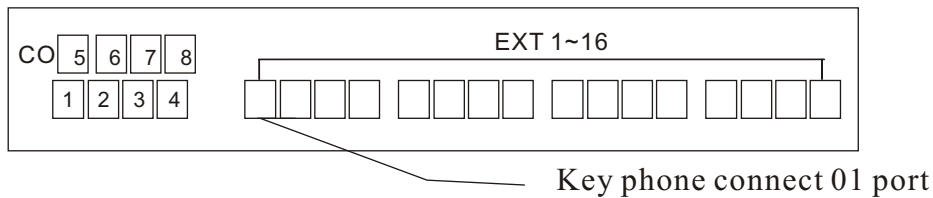
**PBX Ready:** connect key phone set at extension port 01 only;





**ABC**- The second operator, can be 002~064 extensions;

## 2.20 System Re-set

System can return to factory setting after the resetting



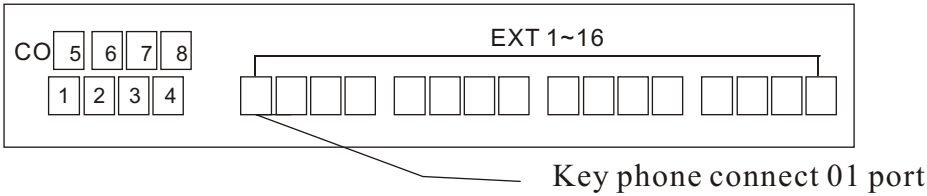
**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
 <b>1</b> Keyphone On-hook	 <b>CHK CHK CHK</b> (3 times)	<div>INPUT SYS CODE</div>
<b>2</b> Password	<b>1 9 6 7 5 9 0</b> <small>du</small>	<div>SYS PRO MODE INPUT CODE</div>
<b>3</b> Program access no.	<b>2 8</b>	<div>SYSTEM RESET 1 / 2 / 0</div>
<b>4</b>	<b>1</b>	<div>10/28 07:37AM 0 8001</div>



- 1**- press 1 is to clear all setting;
- 2**- press 2 is to clear all setting, but not clear Auto-attendant recording;
- 0**- press 0 mean do not re-set, system will return to Program Status;

# 2.21 Wake-up Call Setting

System can set 2 clocks to wake up. This function is useful in Hotel(Time reminder).



**PBX Ready:** connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
1  Keyphone On-hook	ICM 7 7 2	PLEASE DIAL 772
2 24HHMM	1 9 0 8 #	PLEASE DIAL ALARM1 SET
3 Select extensions	8 0 0 8 #	PLEASE DIAL ALARM1 8008#
4  Keyphone On-hook	ICM 7 7 3	PLEASE DIAL 773
5 24HHMM	1 9 0 8 #	PLEASE DIAL ALARM2 SET
Select extensions	8 0 0 9 #	PLEASE DIAL ALARM2 8009#

**1908**- 24Hours, 19 is for Hour, 08 is for minutes,you can set the correct time ;

**8009**- You can select 001~064 extension for setting wake up calls;  
Wake up call is invalid in key phone extension, only to regular phone set;

---

## *Section 3*

# *Appendix*

The chapter shows the references of program, operate and other useful information you may need.

## 3.1 System Factory Setting List

The first time that User operate the PBX, and the PBX is in factory program setting status.

Descriptions	Factory Setting Status	What you can do?
<b>Extension Number</b>	MC-824KA : From 8001,8002~8063,8064 MC-824KA Main board extension no. is: 8001~8008 for 1st 8ports ; 8057~8064 for balance 8ports MC-824KA+ : From 8001,8002 ~8120	Modify extension number refer to Section 2, 2.9, Page 57
<b>Extension Number Modify</b>	Prefixed new extension number must start from "1","2","8"	Start from 1~8,refer to Program 07, Sect 3.5.8
<b>Operators</b>	EXT8001, 1 operator	Set Operator 3.5.28
<b>Outside Line Ports</b>	1~4 ports enabled, 5~8 ports disabled	Refer to 2.1 & 3.5.1
<b>Outside Line Selection</b>	Dial "9" to select any idle line	Refer to 3.5.24
<b>Call Receive Mode</b>	By Operator Attendant, all calls ringing to EXT8001	By Auto-attendant ,refer to 3.5.2
<b>Auto-attendant Channel</b>	1 channel built in , optional 2nd DISA closed	Set 2channel, 3.5.8
<b>Toll Restriction Class</b>	All extensions No restriction	
<b>Caller ID</b>	Full CLID Enabled	
<b>Intercom Call Restriction</b>	Disabled, no restriction	Can restrict at 3.2.24
<b>3-minutes Alarm</b>	Disabled	Enabled at 3.2.23
<b>Call Pickup Group</b>	All Extensions are in same Group 1	Set more groups 2.16
<b>Call Override &amp; Cut Off</b>	Disabled	Enabled at 3.2.23
<b>Do-not-dial number when Welcome message playing</b>	Line will be cut off	Line route to Operator,set at 2.10
<b>Flash Time</b>	600ms	Modify at 3.5.3
<b>Multi-Route</b>	Disabled, all outside line in same route	2-Route : 3.5.2,5.6,5.8
<b>DSS Console Connection</b>	Disabled	Enabled at 3.2.7
<b>DISA CO-CO Password</b>	Do not set	Set at 3.5.22
<b>Walking Account Password</b>	Do not set	Set at 3.5.21
<b>System Program Password</b>	1967590	Can modify at 3.5.27
<b>Power Failure Port</b>	Total 4ports: Outside line 1 transfer to EXT8005 Outside line 2 transfer to EXT8006 Outside line 3 transfer to EXT8007 Outside line 4 transfer to EXT8008	Can add backup card
<b>Power Supply</b>	220VAC, 50Hz	Change transformer

## 3.2 Operation Quick Reference

Features	By Key Phone	By Regular Phone
Intercom Call	<u>ICM</u> + Extension number	Off-hook + <b>#</b> + Extension number
Call Outside	Off-hook + Outside number	Off-hook + Outside number
Call Transfer	<u>TRFR</u> + Extension number	Flash <i>HookSwitch</i> + <b>#</b> + Ext. no.
Call on Hold	Press <u>HOLD</u>	Flash <i>HookSwitch</i> + <b># 4</b>
Call hold Retrieve	from holding ext.: <u>ICM</u> + <b>5 *</b>	Off-hook + <b># 5 *</b>
	from specified ext.: <u>ICM</u> + <b>5</b> + Ext. no.	Off-hook + <b># 5</b> + Extension number
	from specified outside line.: <u>ICM</u> + <b>5 #</b> + Outside Line Port no.	Off-hook + <b># 5 #</b> + Outside Line Port number
to Page	<u>ICM</u> + <u>PAGE</u>	Off-hook + <b># 63</b>
Page Pickup	<u>ICM</u> + <b>4 *</b>	Off-hook + <b># 4 *</b>
Page Multi-extensions	<u>ICM</u> + <b># 63</b> or <u>ICM</u> + <u>PAGE</u>	invalid
Set or Cancel Page Multi-extensions	Set : <u>ICM</u> + <b># 720 #</b> Cancel : <u>ICM</u> + <b># 721 #</b>	invalid
Call Pickup Randomly	<u>ICM</u> + <b>40</b> or press <b>*</b> only	Off-hook + <b># 40</b> or press <b>*</b> only
Call Pickup Directed	<u>ICM</u> + <b>4</b> + Ringing Extension	Off-hook + <b># 4</b> + Ringing Extension
Auto Call-back on-busy	Press " <b>6</b> " when Busy	Press " <b>6</b> " when Busy
Walking Account PIN	<u>ICM</u> + <b>## **</b> + password + <b>9</b> + Outside number	Off-hook + <b>## **</b> + password + <b>9</b> + Outside number
Day/Night Switch	<u>ICM</u> + <b># 782 #</b> (Night); <u>ICM</u> + <b># 781 #</b> (Day)	Off-hook + <b># 782 #</b> ( Night ) ; Off-hook + <b># 781 #</b> ( Day )
Call Override	<u>ICM</u> + <b>3</b> + Outside Port no. + <b>1</b>	Off-hook + <b>#3</b> + Outside Port no. + <b>1</b>
Call Cut-off	<u>ICM</u> + Extension number + <b>*</b>	Off-hook + <b>#</b> + Extension no. + <b>*</b>
Call Forwarding	Forward All Calls: <u>ICM</u> + <b>71</b> + Extension no. + <b>1 #</b>	Off-hook + <b># 71</b> + Ext. no. + <b>1 #</b>
	Forward on-Busy: <u>ICM</u> + <b>71</b> + Extension no. + <b>2 #</b>	Off-hook + <b># 71</b> + Ext. no. + <b>2 #</b>
	Forward on No-answer: <u>ICM</u> + <b>71</b> + Extension no. + <b>3 #</b>	Off-hook + <b># 71</b> + Ext. no. + <b>3#</b>
	Forward on-busy & no-answer: <u>ICM</u> + <b>71</b> + Extension no. + <b>4 #</b>	Off-hook + <b># 71</b> + Ext. no. + <b>4#</b>

## 3.2 Operation Quick Reference

Features	By Key Phone	By Regular Phone
Do Not Disturb(DND)	Press <u>FWDND</u>	Off-hook + <b># 7110 #</b>
Cancel Call Forward & Do Not Disturb	<u>ICM</u> + <b>70#</b>	Off-hook + <b># 70 #</b>
Time Adjust	<u>ICM</u> + <b># 771</b> HH : MM <b>#</b>	Off-hook + <b># 771</b> HH : MM <b>#</b>
Time Reminder	Clock 1: <u>ICM</u> + <b>772</b> HH:MM + Ext. no. + <b>#</b>	Clock 1: Off-hook + <b># 772</b> HH:MM + <b>#</b>
	Clock 2: <u>ICM</u> + <b>773</b> HH:MM + Ext. no. + <b>#</b>	Clock 2: Off-hook + <b># 773</b> HH:MM + <b>#</b>
Cancel Time Remind	Clock 1: <u>ICM</u> + <b>772 #</b> + Ext. no. + <b>#</b>	Off-hook + <b># 772 #</b>
	Clock 2: <u>ICM</u> + <b>773 + #</b> Ext. no. + <b>#</b>	Off-hook + <b># 773 #</b>
Built-in /External Music Switch	<u>ICM</u> + <b># 751 #</b> ( External );	Off-hook + <b># 751 #</b> ( External );
	<u>ICM</u> + <b># 750 #</b> ( Built-in )	Off-hook + <b># 750 #</b> ( Built-in )
Voice Announce Extension No.	<u>ICM</u> + <b># 6*</b>	Off-hook + <b># 6*</b>
Voice Announce Extension Port No.	<u>ICM</u> + <b># 6 #</b>	Off-hook + <b># 6 #</b>
Key Phone Button Usage Display	On-hook: <u>ICM</u> + <u>DSS</u> button (1~32)	Invalid
Key Phone Button Program On-hook : Press <u>ICM</u> 2times + desired <u>DSS</u> button (1~32) + (press optional 1,2,3)	<b>1</b> + Outside Line Port Number + <u>HOLD</u>	Press "1" is to set DSS button to new Outside Line Port number
	<b>2</b> + Extension Number + <u>HOLD</u>	Press "2" is to set DSS button to to new Extension number
	<b>3</b> + External Phone number + <u>HOLD</u>	Press "3" is to set DSS button to new External Phone number
Balance Deposit Check	<u>ICM</u> + <b>7881</b> +Extension number + <b>#</b>	Invalid
Delete all SMDR	<u>ICM</u> + <b>7848</b> +System password + <b>#</b>	Invalid
Conference Call	Talking + <u>CONF</u> + other party + <u>CONF</u> + other party + <u>CONF</u> + other party ...	Talking + Flash <b>Hookswitch</b> + <b># 4</b> + other party + Flash <b>Hookswitch</b> + <b># 5</b>
DISA CO-CO Call	Hearing Welcome Message + <b>*</b> + DISA password + Outside phone no.	Hearing Welcome Message + <b>*</b> + DISA password + Outside phone no.

Remarks : in key phone MC-1 ,MC-40,MC-50, intercom button is ICM , while MC-3 is INT

in key phone MC-1 ,MC-40,MC-50, System Program button is CHK , while MC-3 is FNC

### 3.3 PBX Feature/Specification Compare List

Model Feature	MC-416K (MC-208K)	MC-824KA	MC-824KA+	MC-824KD	MC-824KD+
Basic Outside Lines	4 (2)	4	4	4	8
Basic Extensions	16 (8)	16 (4hybrid)	16 (4hybrid)	16 (4hybrid)	16 (8hybrid)
Max. Outside Lines	4 (2)	8	12	28	32
Max. Extensions	16 (8)	64	112	80	144
Max. Hybrid Ports	1 (1)	12	12	68	80
Max. Digital PRI	NO	NO	NO	1	1
Operators	2	2	2	3	3
Abbreviation Dialing	50	50	50	50	50
Toll Restriction	6-level	6-level	6-level	6-level	9-level
SMDR	NO	YES	YES	YES	YES
PC Program	NO	YES	YES	YES	YES
Call Center	NO	NO	NO	YES	YES
External Music	YES	YES	YES	YES	YES
Power Fail Ports	2 (2)	4	NO	4	NO
External Pager	NO	YES	YES	YES	YES
Doorphone, Opener	1~8	1~8	1~8	1~8	1~8
DSS Console	NO	2*64keys	2*64keys	2*64keys	2*64keys
Outgoing DISA	30s, 3-level	78s, 6-level*2ch	78s, 6-level	78s, 6-level*4ch	75s, 6-level*8
Night Message	NO	12s*1 level*2ch	12s*1level*2	12s*1 level*4ch	12s*1level*8
Backup Card	NO	YES	YES	YES	YES
Backup Battery	NO	1*24VDC	1*24VDC	2*12VDC	2*12VDC
Switch Power	NO	YES	YES	YES	YES
Wake Up Call	NO	YES	YES	YES	YES
Flash Time	300~900ms	300~900ms	300~900ms	60~800ms	60~800ms
Walking Account	255	255	255	255	255
Pickup Group	4	4	4	8	8
Hunting Group	1	4	4	8	8
Boss/secretary Call	4	4	4	8	8
Conference Party	3~8party*1	3~8party*1	3~8party*1	3party*2	3~32
Music on Hold	External	External	External	External & internal	Ext.&Internal
Caller ID	All CLID	All CLID	All CLID	All CLID	All CLID
Call Forward Mobile	NO	NO	NO	YES	YES
CO-CO Call	NO	YES	YES	YES	YES
Intercom Channel	7	8	25	non-blocking	non-blocking
Ext. Numbering	2-4 digit	2-4 digit	2-4 digit	2-4 digit	2-4 digit
Ext. Prefix Number	1,2 or 8	1~8	1~8	1~8	1~8

#### PACKING DETAILS

Hybrid PBX	Carton Size(cm³)	Pcs/Carton	Kgs/Carton	Remarks
MC-208K KSU	52.5*27*21.5	10	13kgs	
MC-416K KSU	64*36.5*35	5	13.5kgs	
MC-824KA KSU	82*50*35(cm³)	5	30~50kgs	
MC-824KA+ KSU	82*50*35(cm³)	5	30~70kgs	
MC-824KD KSU	82*50*35(cm³)	5	30~60kgs	
MC-824KD+ KSU	82*50*35(cm³)	5	30~80kgs	
MC-1 Keyphone	66*34*27(cm³)	5	13kgs	
MC-50 Keyphone	65*29*28(cm³)	10	12kgs	
MC-3 Keyphone	62*43*24(cm³)	10	12kgs	
MC-3 DSS	62*43*24(cm³)	10	12kgs	



### 3.4 *System Program Related to Operation*

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<b>Features &amp; Setting</b>	<b>Related with which System Programs (00~35)</b>
<b>Outside Line Connection</b>	Program 01
<b>Extension make outgoing Call</b>	Program 09,10,14,23
<b>Auto-attendant</b>	Program 01 & Operation Quick Reference guide
<b>Operator Mode &amp; Auto-attendant auto-switch</b>	Program 01,04,08
<b>Toll Restriction</b>	Program 14,15,16,18
<b>PBX Line</b>	Program 02,19
<b>System Password Modify</b>	Program 26
<b>Call Override &amp; Cut-off</b>	Program 22 & Operation Quick Reference guide
<b>Reversal Charge Mode</b>	Program 02
<b>Off-hook Route to Outside</b>	Program 23
<b>Walking Account PIN</b>	Program 13,20 & Operation Quick Reference guide
<b>Conversation Alert</b>	Program 06, 22
<b>System Speed Dialing</b>	Program 03
<b>SMDR from computer</b>	Program 07
<b>DSS Connction</b>	Program 06
<b>Setting Operators</b>	Program 27
<b>Paging</b>	Program 07 & Operation Quick Reference guide
<b>System Re-set</b>	Program 28

## 3.5 System Program Code List 00~36

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### *How to Login into PBX System Program Status?*

When login into System Program Status, 00,01,02~35,36 is the code list for different system program purpose, you can change the system original setting by different programs. Within each program, different digit stands for different PBX feature.

Example,

by key phone set MC-1 how to login into Program Status ?

1. On-hook > Press **CHK** 3 times > input “1967590 ” (hearing beep “du..”)

After this, you can input program code from “00”~ “36”;

by regular phone, how to login into Program Status?

1. On-hook > input “#787 1967590 ” (hearing dialing tone)

After this, you can input program code from “00”~ “36”;

#### **Remarks:**

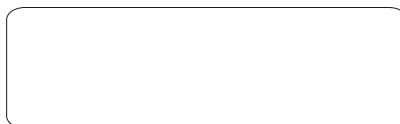
1. Suggest to program system by Key Phone set, so user can see the program change and set at phone LCD. It is easier way then to program by regular phone;

2. **TRFR** button is used to move mouse curse to different function digit & **CLR** button is to exit or clear the setting. **HOLD** button is used for save the new programs.

## 3.5 System Program Code List 00~38

### 3.5.1 Program 00: Time & Date Setting

TIME/DATE SET



(YEAR):Enter year(00~99) and press **TRFR** key to next  
(MONTH):Enter month(01~12) and press **TRFR** key to next  
(DATE):Enter date(01~31) and press **TRFR** key to next  
(WEEK):Enter week(0~6 ; 0 for Sunday;1-6 for Monday to Saturday) and press **TRFR** key to next  
(HOUR):Enter hour(01~12) and press **TRFR** key to next  
(MINUTE):Enter minute(00~59) and press **TRFR** key to next  
(AM/PM): Enter 0 or 1 (0:AM,1:PM) and press **TRFR** key to 1 or 0.

If error occur in the process of inputting digit, there will be an error reminding tone to remind you to return.

Pressing **CLEAR** key in the process of input of data , the data input before will not be saved. And return to program code status

If pick up handset during program and inputting digit, then program will not be saved.

Press **HOLD** key after input the right data, and return to system program code status.  
Press **CLEAR** key or goes off-hook, then it will exit from system program mode.

### 3.5.2 Program 01: Outside Line Setting 01

The upper row display: LINE SETTING 1  
The lower row display: L-ABCDE

L: 01~32 (Outside Line Port number, or press “\*” for all lines)  
A: 0~2 (Outside Line connection : 0- Dis-connect; 1-Connect & detect Caller ID number at 3-digit or above ; 2-Connect & detect Caller ID number at 7-digit or above ;  
B: 0-3 (Caller ID type: 0- Not receive CLID, 1- Receive only FSK CLID , 2- Receive both FSK/DTMF CLID, 3- Receive only DTMF CLID.)

## 3.5 System Program Code List 00~38

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- C: 0~1 (Incoming call answer : 0- by Operator transfer; 1-by Auto-Attendant)  
D: 0~3 (What time switching to Auto Attendant : 0-if No one pickup ; 1-at Day Time; 2- at Night Time ; 3- at both Day and Night time). The no-one pick up ringing times decided by Program 08(sub-item 7,“ZZ”), can be 1~25 rings.  
E: 0~1 (Toll Restriction Line : 0-Not allow for Toll Restriction ; 1- Allow for Toll Restriction); (Or Digital E1 Lines: 0-Enable E1 Line ; 1-only regular PSTN Line, disable E1)

### 3.5.3 Program 02: Outside Line Setting 02

The upper row display: LINE SETTING 2  
The lower row display: L- ABCDE

- L: 01~32(Outside Line Port number or press “\*” for all lines)  
A: 0~3(Outside Line type: 0- Normal line; 1-PBX Line (Line is extension of second PBX); 2- PBX line’s hunting mode; 3- Normal line hunting mode)  
B: 1 or 3 (Centrex Line outgoing Call 1- No need dial “9” out; 3- No need dial “0” out)  
C: 0~1(Call release time: 0-1.5 seconds; 1- 4 seconds)  
D: 0~3 (Flash time / Gain Adjustment: 0-600ms/0DB ; 1-900ms/0DB ; 2-600ms/3DB; 3- 900ms/3DB)  
E: 0~1 (SMDR counting type: 0-Time delay ;1-Reversal .)

**Remarks:** PBX Line setting related with Program 19, Call hunting related with Program 24.

### 3.5.4 Program 03: System Speed Dialing Code

The upper row display: ABBREVIATE CODE  
The lower row display: SD--

SD: series number, from 00-49,total 50 groups;

**Remarks:** This system can set 50 groups system speed dialing code, each extension can use them, Toll Restriction class is invalid to these speed dialing code ; Related with Multi-line route.

## 3.5 System Program Code List 00~36

### 3.5.5 Program 04: System Setting 01

The upper row display: SYSTEM SETTING 1

The lower row display: ABCDE

- A: 0~7 ( Day/night service switch: 1/3/5/7-Auto-switch ; 0/2/4/6--Switched by Operator )  
(SMDR pre-paid function: 2/3/6/7-Enable ; 0/1/4/5-Disable )  
(Decoder selection :1/ 2/ 3: Decoder 1 CH5230D; 4/5/6/7: Decoder 2 HT9172 )  
Day/Night time is decided at Program 08 (sub-item 06)
- B: 0~1 (Local call Auto IP Route : 0- Disable ; 1- Enable)
- C: 1~2(Incoming call ringing time delay/ CO-CO DISA Call restricted duration :1-2 rings/15 minutes; 2- 4rings / 45 minutes)
- D: 0~1(Outgoing call decoder release time: 0-25seconds, 1- 10seconds)
- E: 0~1(Caller can dial number during Auto-attendance playing. 0- invalid, 1- valid)  
It is invalid dialing within the first 1 second message playing.

### 3.5.6 Program 05: System Setting 02

The upper row display: SYSTEM SETTING 1

The lower row display: ABCDE

- A: 0~1(Do-not-dial number in DISA message playing & conversation will : 0- not switch to Operator & line being released ; 1- switch & ring to Operator phone )
- B: 0~1 (Night Service message level selection : 0- Level 6; 1- Level 1)
- C: 0~3(Valid duration for SMDR start counting: 0-immediately , 1- 10sec. later, 2- 30sec. later,) 3- 60sec. later )
- D: 0 (Keep here as "0")
- E: 0~1(Outgoing Line routing groups switch: 0- Disable; 1- Enable).  
System support 8 routing groups, related with Program 16 (sub item-18) & Program 38;

### 3.5.7 Program 06: System Setting 03

The upper row display: SYSTEM SETTING 3

The lower row display:-ABCDE

- A: 0~3(when for Hotel SMDR Software RS232 port : 0/2- Disable; 1/3: Enable )  
0~3(when for Dial-wrong-number DISA message playing : 0/1: Enable; 2/3: Disable )

## 3.5 System Program Code List 00~36

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- B: 0~1 (Outside line phone numbers integrated: 0- disable ; 1- enable )  
C: 0~4 (The duration for a Holding-call ring back : “0”- do not ring back; “1”- after 30 seconds; “2”- after 1 minute; “3”- after 1.5 minutes; “4”- after 2 minutes)  
D: 0~1 (3-minute Conversation alarm mode: “0”-alarm for both incoming & outgoing call; “1”- only alarm for outgoing call.)  
E: 0~1 ( Connection DSS console 0-disabled, 1-enabled)  
DSS can be only connected to the Extension Port 001 only

### 3.5.8 Program 07: System Setting 04

The upper row display: SYSTEM SETTING 4  
The lower row display:-ABCDE

- A: 0~3 (Full flexible extension numbering / Outgoing Line Routing groups : 0- Disable/Disable;  
1- Enable/ Disable; 2- Disable/ Enable; 3- Enable/ Enable)  
B: 0~1 ( IP auto Least Cost Route: 0-Disable; 1-Enable)  
C: 0~1 (Choice of Page tone music: 0-the first music;1-the second music)  
D: 0~2 (Digital E1 Lines : 0- Disable E1 ; 1-Enable & occupy Outside conversation channels;  
2-Enable & occupy Intercom conversation channels )  
E: 0~3( for SMDR Call Logs: 0/2: display only long-distance calls; 1/3: Display all calls)  
( for DISA channels selection: 0/1: Select built-in 2channels; 2/3: Select optional  
expandable 6-channels “MC-824KD+OGM” card)

**Remarks:** Full Flexible Extension Numbering means you can crease new extension number’s prefixed digit fully from 1,2,3,4,5,6,7,8 ,since default prefixed digit is restricted only at digit “1” “2” “8”

DISA Channel: means incoming call to welcome message,and default is 2channel.

### 3.5.9 Program 08: Day/Night Service & Duration

The upper row display: INTL TIME X SN  
The low row display: HH:MM-hh:mm-ZZ

- X:1~99 (The quantity to set such duration,such as you can set 3 duration for Night,10 duration for holiday )  
SN: 00~22 (the sub-program code to set different Service Zone)  
HH:MM : Hour/minute (The Starting Time for the Service duration)  
hh:mm: Hour/minute (The Ending Time for the Service duration)  
ZZ: 01~99 (Discount Call Rate percentage, such as 10%, 50% discount or other usage such as 1~99 seconds, or 1~99 rings)

## 3.5 System Program Code List 00~36

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SN: has the choice from “00”~ “22”, here we only introduce part of the choices.

1> When input SN: 00~03 (means IP Auto LCR rate & discount duration)

2> When input SN: 06~08 ( The Start and Ending time for NIGHT SERVICE )

The upper row display: NGT TIME1 06

The low row display: HH:MM-hh:mm-ZZ

HH:MM : Hour/minute (The Starting Time for the Night Service 1 duration)

hh:mm: Hour/minute (The Ending Time for the Night Service 1 duration)

ZZ: 01~99 (Seconds, The time delay to receive incoming Caller ID, Related with item “B” at System Program 01)

The upper row display: NGT TIME2 07

The low row display: HH:MM-hh:mm-ZZ

HH:MM : Hour/minute (The Starting Time for the Night Service 2 duration)

hh:mm: Hour/minute (The Ending Time for the Night Service 2 duration)

ZZ: 01~25 (Call ringtones , When no one pick up the ringing call ,after “1~25” ringtones,PBX service switch to Auto- attendant mode, Related item “D” of System Program 01)

SN:08 is for NGT TIME3, the third service duration for Night Time. Same setting

3> When input SN: 09~10 ( DAY or NIGHT time setting for Week )

The upper row display: WEEK A SN

The low row display: W-Z

SN: 09~10 (You can set 2 different Week Service Duration)

W: 0~6 (WEEK, from Monday to Sunday, “0” means Sunday)

Z: 0~1 (Week duration setting code: 0- Valid ; 1- Invalid)

4> When input SN: 11~20 ( DAY or NIGHT time setting for Public Holiday )

The upper row display: HOLIDAY01 SN

The low row display: MM/DD-Z

SN: 11~20 (You can set 10 different Public Holiday Duration)

MM: 01~12 (Month, means in which month to set holiday)

DD: 01~31 (Date, means in month MM and which date to set holiday)

Z: 0~1 (Holiday duration setting code: 0- Valid ; 1- Invalid)

5> To enable Automatic Day/Night Service switch, please change System Program 04 to -10410

6> Ignore other SN setting,they are only for some special country IDD,DDD Discount Call.

## 3.5 System Program Code List 00~36

### 3.5.10 Program 09: Outgoing Call Line Selection -Day Time

The upper row display: DAY LN OUT SET  
The low row display: EXT- N-XXXXXXXX

EXT: 001-144 (Extension port number, “\*\*\*”represent all extensions)  
N: 1~4 (Outside Lines group series no. : 1-Line 1~8; 2- Line 9~16; 3- Line 17~24; 4- Line 25-32)  
XXXXXXXX: 0-1(the extension select which Outside Line to make outside call: “0”-Not allow, “1” -Allow.)  
**Remarks:** XXXXXXXX ,8-digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8)

### 3.5.11 Program 10: Outgoing Call Line Selection -Night Time

The upper row display: NGT LN OUT SET  
The lower row display: EXT-N-XXXXXXXX

EXT: 001-144 (Extension port number, “\*\*\*”represent all extensions)  
N: 1~4 (Outside Lines group series no. : 1-Line 1~8; 2- Line 9~16; 3- Line 17~24; 4- Line 25-32)  
XXXXXXXX: 0-1(the extension select which Outside Line to make outside call: “0”-Not allow, “1” -Allow.)  
**Remarks:** XXXXXXXX ,8digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8). Extension select within 001~064;

### 3.5.12 Program 11: Ringing Extension Selection -Day Time

The upper row display: DAY LN IN SET  
The lower row display: EXT-XXXXXXXX

N: 1~4 (Outside Lines group series no. : 1-Line 1~8; 2- Line 9~16; 3- Line 17~24; 4- Line 25-32)  
EXT: 001-144.(Extension port number, “\*\*\*”represent all extensions)  
XXXXXXXX: 0-1(the Outside Line will ring to which extensions: “0”-Not allow, “1” -Allow.)  
**Remarks:** XXXXXXXX ,8digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8). Extension select within 001~064;Outside Line select from XXXXXXXX.



## 3.5 System Program Code List 00~36

### 3.5.13 Program 12: Ringing Extension Selection -Night Time

The upper row display: NIGHT LINE IN SET

The lower row display: EXT-N-XXXXXXXX

EXT: 001~144(Extension port number, “\*\*\*\*”represent all extensions)

N: 1~4 (Outside Lines group series no. : 1-Line 1~8; 2- Line 9~16; 3- Line 17~24; 4- Line 25-32)

XXXXXXXX: 0~1 (the Outside Line ring to which extensions: “0”-Not allow, “1”-Allow.)

Extensions select from 001~144, Outside Line select from XXXXXXXX.

### 3.5.14 Program 13: Incoming Ringing Time Delay Setting

The upper row display: LINE RING DELAY

The lower row display: EXT-N-XXXXXXXX

EXT: 001-064.(Extension port number, “\*\*\*\*”represent all extensions)

N: 1~4 (Outside Lines group series no. : 1-Line 1~8; 2- Line 9~16; 3- Line 17~24; 4- Line 25-32)

XXXXXXXX: 0-1(Incoming call ring to extension, the time to ring will postponed : 0- Now allowed; 1- Allowed)

ST: 253~256 (4-type of authority to use password to make outside calls:“0”-Not allow, “1”-Allow.) Password include for DISA CO-CO call, Walking Account PIN call.

### 3.5.15 Program 14: Toll Restriction Class

The upper row display: SERVICE CLASS

The lower row display: EXT-CS-cs-X

EXT: 001-144.(Extension port number, “\*\*\*\*”represent all extensions)

C: 6-class of Toll Restriction service in Day Time- Outgoing Restriction

Class 1: No restriction ,free for any call.

Class 2: Do not allow to call the numbers set at Program 15;

Class 3: Can't call numbers set at Program 16,but can call numbers at Program 17;

Class 4: Restrict the numbers set at Program 15 & 16,and can't call numbers at Program 17;

Class 5: Can only call numbers set at Program 18;

Class 6: Only intercom call allowed.

S: 4-class of Toll Restriction service in Day Time - Incoming Restriction

Class 1: No restriction ,free for any incoming call.

## 3.5 System Program Code List 00~36

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Class 2: Restrict for incoming ; no restriction for Intercom calling

Class 3: Restrict for Intercom calling; no restriction for incoming;

Class 4: Restrict both incoming & intercom calling, only allow call from Operator extension;

c: 6-class of Toll Restriction service in Day Time- Outgoing Restriction, same as “C”;

s: 4-class of Toll Restriction service in Day Time - Incoming Restriction, same as “S”;

X: 1~8 (means 001~008 port Key Phone set: DSS button program example reference port. Only need set for DSS button more than number 49, No. 1~48 here “X” do not need to set ).

**Remarks:** All Toll Restriction Class Service is subject to Program 14, such as Class for Walking Account, CO-CO DISA call etc.

### 3.5.16 Program 15 Restriction Code A

The upper row display: RESTRICT CODE A

The lower row display: SN-XXXXXXXX

SN: 01-04 (Series number, total you can set 4 different restriction codes)

XXXXXXXXXX (Restrict codes selectable, 1~8 digits)

**Remarks:** This restriction code related with Class 2 or 4 at Program 14.

(Default: 01-00, 02-168, 03-968, 04-969)

### 3.5.17 Program 16 Restriction Code B

The upper row display: RESTRICT CODE B

The lower row display: SN-XXXXXXXX

SN: 01~15(series number, total you can set 20 different restriction codes)

XXXXXXXXXX (Restriction code, 1~8 digits)

SN: 16 (Operator phone assign at Fully Extension Number Flexible Numbering,default is X=0)

X: 0~144 (Extensions for Operator phone selection)

SN: 17 (The selection-mode to select which Outside Line to make outgoing calls )

X: 0 or 2 or other (0: Select from 1~32 in order; 2- Select from 32~1 inverted order; other: in cycle)

SN: 18 ( Outgoing line selection code setting)

SN: 19~20 (Digital E1 PRI setting)

## 3.5 System Program Code List 00~36

### 3.5.18 Program 17 Non-restriction Code C

The upper row display: UNREST CODE C

The lower row display: SN-XXXXXXXX

SN:01~12(series number, total you can set 12 different un-restriction codes)

XXXXXXXX (1~8 digits un-restriction codes,can release the restricted numbers set at Program 15, Program 16, available for Class 3 in Program 14)

### 3.5.19 Program 18 Emergency Code D

The upper row display: COMUNRES CODE D

The lower row display: SN-XXXXXXXX

SN: 01~04 (series number, total you can set 4 different emergency numbers)

XXXXXXXX (1~8 digits emergency call numbers )

(Default: 01-110, 02-112, 03-119: “110” for Police,“112” for Ambulance,“119” for Fire)

### 3.5.20 Program 19 PBX Line Code

The upper row display: PBX ACCESS CODE

The lower row display: SN-XX

SN:01~04(series number, you can set total 4 different codes)

XX (PBX restricted code, max 2 digits)

The program used when PBX outside line port connect with extension from second PBX

### 3.5.21 Program 20 Walking Account PIN Setting

The upper row display: OVER CLASS CODE

The lower row display: SN-XXXXXXXX- Y-Z

SN: 001-255 (Account PIN series number, max. 255)

XXXXX#: ( PIN password number, must 5-digit and ending with “#” )

Y : 1~6 (Toll Restriction Class , total 6-class)

Z: 1~ 4 (4-type of authority to use password to make outside calls, decided by Program 13)

The call cost will charged at PIN number, not at the extension.And PIN number will be valid for 10seconds after goes on-hook.

## 3.5 System Program Code List 00~36

### 3.5.22 Program 21 DISA CO-CO Call Password

The upper row display: DISA SEC CODE

The lower row display: SN-XXXXXXXX- Y-Z

SN: 001~008 (Series number, you can set max. 8 different passwords)

XXXXXX: (DISA password, 6-digit)

Y: 1 (Toll Restriction Class, this function only valid at class 1, so keep “1” here)

Z: 1~4 (4-type of authority to use password to make outside calls, decided by Program 13)

This function is use password to call from outside to PBX then through PBX to make outside call again. The cost will charged at DISA password only.

### 3.5.23 Program 22 Extension Setting 01

The upper row display: EXT SETTING1

The lower row display: EXT-ABCDE

EXT: 001-144 (Extension port number, “\*\*\*”represent all extensions)

A:0~3 (Call Waiting alert from Intercom call or Incoming call : 0-OFF for intercom & incoming; 1- ON for intercom & OFF for incoming; 2- OFF for intercom &ON for incoming; 3- ON for intercom & incoming)

B: 0~1 (Caller ID to extension: 0-off, 1-on)

C: 0~3 (3-minutes Conversation duration alert: “0”-no alert, “1”- 3min., “2”- 6min., “3”- 9min.)

The alert related with Program 06 & line being auto-released about 90seconds after alert.

D: 0~1 ( Call override and cut-off : 0-not allowed, 1-allowed)

E: 0~3 (for Choice of key phone language: 0/2-English, 1/3-Chinese;  
for Manually transfer CO-CO DISA call: 0/1- Disable; 2/3- Enable)

### 3.5.24 Program 23 Extension Setting 02

The upper row display: EXT SETTING 2

The lower row display: EXT-ABCDE

EXT: 001-144 (Extension port number, “\*\*\*”represent all extensions)

A: 0~8 ( CO Line is automatically or randomly being selected when extension goes off-hook.  
0- select any Outside Line. 1~8: to firstly select assigned Outside Line 1~8. )

The system should be set to “Off-hook Route to Outside line” mode, decide at item “D”

B: 0~2 (Do Not Disturb setting: “0”-DND disabled, “1”-DND for incoming call; “2”-DND for call from intercom ; “3”- DND for call from both intercom and incoming)

C: 0~1 (Force all calls must through IP Least Cost Route: “0”-Disable ; “1”- Enable)

D: 0~1 (Dial outside number route setting: “0”- dialing out by “9” , “1”-dialing out directly)

E: 0~1 (Intercom call : “0”- no restriction; “1”- restricted) .If restricted then can only allow to dial Operator extension.

## 3.5 System Program Code List 00~36

### 3.5.25 Program 24 Pickup Group

The upper row display: PICKUP GROUP

The lower row display: SN-X-EXT-Y

SN: 01~12 (Series number, can set max. 12 different pickup groups ;and groups 1~8 can set Auto-attendant to extension only dial 1-digit,such as “1” to Sales, “2” to Purchase ; group 9~12 is normal pickup groups)

X: 0~3 (Pickup Group types: “0”- normal group; “1”-All extension ring at same time; “2”- Call queue “ring one by one”; “3”- Call queue “ring in priority”)

EXT : 001~144 (Extension port number, “\*\*\*”represent all extensions)

A: 0~1 (Join the group or exit from the group: “0”- Not join; “1”-Join in )  
Factory setting: all extensions in Group 9.

### 3.5.26 Program 25 Manager/Secretary Call Group

The upper row display: EXEC/SEC PAIR

The lower row display: SN-EXT-ext

(Secretary pick up the incoming call instead of manager. System can set 8-group manager secretary call group)

SN: 1~8 (Series number, max. can set 8 different Secretary manager pair group )

EXT:001~088 (Extension port number for Manager , “\*\*\*”represent all extensions)

ext: 001~088 (Extension port number for Secretary , “\*\*\*”represent all extensions)

After active this function, calls to Boss will automatically route to Secretary and then transfer the calls to Manager .

**Remarks:** Do Not Disturb function should be enabled at Manager extension.

### 3.5.27 Program 26 System Password

The upper row display: SYS SECRET CODE

The lower row display: -XXXXXXX-

-XXXXXXX- : (Password for System Program, 7-digit)

You can check or change the system program password, original is “1967590”

## 3.5 System Program Code List 00~36

### 3.5.28 Program 27 Setting more Operators

The upper row display: SPECIAL PORT

The lower row display: OPERATOR 1: EXT

EXT: 001~144 (1st Operator extension at Day Time)

Press **TRFR** button 1 time :

EXT: 001~144 (Second Operator extension at Day Time)

Press **TRFR** button 1 time :

EXT: 001~144 (1st Operator extension at Night Time)

**Remarks:** Regular phone can not set operators

### 3.5.29 Program 28 System Re-set

The upper row display: SYSTEM RESET

The lower row display: 1/2/0

(To set system to the factory default setting, including the system program password. )

to Reset : “1”-delete all ; “2”- delete all but do not delete DISA message recording; “0”- do not re-set)

### 3.5.30 Program 29 Modify Extension Number

The upper row display: PORT EXT NUMBER

The lower row display: EXT-XXXX-xxxx-Y

EXT: 001-144.(Extension port number,”\*\*\*\*”represent all extensions)

XXXX: It is the desired extension number from 2 to 4-digit number. The leading digit for the desired new extension number start with “1” “2” or “8” in default.

xxxx: 8001~8144( 30B+D digital DID suffix code)

Y: 0~3 (Digital DID type selection : “0”- Disable DID; “1”- PRI DID ; “2”- No. 2 DID)

**Remarks:** Extension number can't be repeated in same system.

Clear all previous extension numbers: Input “ \*\*\* ”, press “TRF” twice.

Clear the present extension number: Input extension number + “**TRF + CLEAR + TRFR or HOLD**”.

Must delete all previous numbers before create new numbers: at program 29, input “ \* \* \* \* \* ”.

## 3.5 System Program Code List 00~36

### 3.5.31 Program 30 Outgoing IDD Call auto Route Selection

The upper row display: INTERNL CODE

The lower row display: 00XXX-Z

00XXX: (the country area code of international distance call )

Z: 0~8 (Auto route code : “0”- select any idle Outside Line port to make outgoing calls;  
“1”~“8”-Select specified 1-8 route)

This setting is to use different Outside line to make call to different countries.

### 3.5.32 Program 31 Outgoing DDD Call auto Route Selection

The upper row display: NATIONAL CODE

The lower row display: 00XXX-Z

00XXX: (the country area code of international distance call )

Z: 0~8 (Auto route code : “0”- select any idle Outside Line port to make outgoing calls;  
“1”~“8”-Select specified 1-8 route)

This setting is to use different Outside line to make call to national long-distance.

### 3.5.33 Program 32 Outgoing Local Call auto Route Selection

The upper row display: LOCAL CODE

The lower row display: XXXX -Y-Z

X: 1~9 (The prefixed digit for local call number )

Y: 0~8 ( Auto route code : “0”- select any idle Outside Line port to make outgoing calls;  
“1”~“8”-Select specified 1-8 route)

Z: 0~9 (Locall call IP LCR setting: “0”- Enable IP LCR call ; “1”~ “9”- Disable IP LCR call  
for locall number prefixed from “1”~ “9” )

This setting is to dial different digit to select different Outside line to make local call.

## 3.5 System Program Code List 00~36

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### 3.5.34 Program 35 Display Call Logs Storage Capacity

The upper row display: CHARGE COUNTING

The lower row display: -XXXX-

XXXX : (The SMDR call log list quantity in system. Max. 200 lists)

### 3.5.35 Program 37 PRIORITY PORT

The upper row display: PRIORITY PORT

The lower row display: SN-EXT

SN : 01~50 (Series number for incoming call ringing)

EXT: 001~144 (The extension physical port number)

This is to set which extension will ring firstly . “01” is first, then “02”, “03” .....

### 3.5.36 Program 38 LINE SETTING 03

The upper row display: LINE SETTING 3

The lower row display: L-AB-Z

L: 01~32 (Outside line numbers, press “\*” represent all lines)ines)

AB: 00~15 (Sensitivity adjustment for decoder CH5230D,the smaller the more sensitive)

Z: 1~8 (Outside Line port Route. Enable at Program 05)